WETLAND DETERMINATION DATA FORM - Alaska Region

Applie	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 30-Jul-13
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T172_02
Investi	gator(s): WAD, RWM		Landform (hill	side, terrac	ce, hummocks etc.): Hillside
	relief (concave, convex, none): concave		Slope:		D ° Elevation: 953
Subred	gion : Interior Alaska Mountains	Lat ·	63.265726804		Long.: -148.256771087 Datum: NAD83
	ap Unit Name:	Lutii	03.20372000-	-	NWI classification: Upland
	•			● No ○	
	matic/hydrologic conditions on the site typical for this till /egetation \square , Soil \square , or Hydrology \square s	•	tly disturbed?		(If no, explain in Remarks.) Normal Circumstances" present? Yes ● No ○
		-	problematic?		torrial officarriots present:
					eded, explain any answers in Remarks.)
SUMI	MARY OF FINDINGS - Attach site map show	ving sar	mpling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No C)	1-	41 0	unla di Anna
	Hydric Soil Present? Yes O No •)			ppled Area (etland? Yes ○ No ◉
	Wetland Hydrology Present? Yes O No •)	Wi	thin a W	/etland? Yes ○ No ⑤
Rem	arks: predominantly low open shrub birch, borderline to	all.			
VEG	ETATION -Use scientific names of plants. Li	st all sp	ecies in the	plot.	
		Absolute			Dominance Test worksheet:
Tre	e Stratum	% Cover		Status	Number of Dominant Species
1.		_ 0			That are OBL, FACW, or FAC: 2 (A)
2.		0			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 Cover:		_		Total % Cover of: Multiply by:
Sap	oling/Shrub Stratum 50% of Total Cover:	0 209	% of Total Cover:	0	OBL Species x 1 =0
1.	Betula glandulosa	55	✓	FAC	FACW Species <u>16</u> x 2 = <u>32</u>
2.	Vaccinium vitis-idaea	5		FAC	FAC Species <u>95</u> x 3 = <u>285</u>
3.	Vaccinium uliginosum	10		FAC	FACU Species 2 x 4 = 8
1	Dhadadandran tamantaayın				
4.	Rhododendron tomentosum	15	_	FACW	UPL Species0 x 5 =0
5.	Empetrum nigrum	25		FAC	UPL Species 0 x 5 = 0 Column Totals: 113 (A) 325 (B)
	F(25			Column Totals: <u>113</u> (A) <u>325</u> (B)
5.	Empetrum nigrum	25			
5. 6. 7. 8.	Empetrum nigrum	25 0 0			Column Totals: 113 (A) 325 (B) Prevalence Index = B/A = 2.876 Hydrophytic Vegetation Indicators:
5. 6. 7. 8. 9.	Empetrum nigrum	25 0 0 0 0			Column Totals: 113 (A) 325 (B) Prevalence Index = B/A = 2.876 Hydrophytic Vegetation Indicators: Dominance Test is > 50%
5. 6. 7. 8.	Empetrum nigrum	25 0 0 0 0			Column Totals: 113 (A) 325 (B) Prevalence Index = B/A = 2.876 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0
5. 6. 7. 8. 9.	Empetrum nigrum Total Cover:	25 0 0 0 0 0		FAC	Column Totals: 113 (A) 325 (B) Prevalence Index = B/A = 2.876 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0 Morphological Adaptations ¹ (Provide supporting data in
5. 6. 7. 8. 9. 10.	Total Cover: 50% of Total Cover:	25 0 0 0 0 0 0 110 55 20	✓ ✓ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	FAC	Column Totals: 113 (A) 325 (B) Prevalence Index = B/A = 2.876 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)
5. 6. 7. 8. 9. 10.	Total Cover: 50% of Total Cover: Anthoxanthum monticola ssp. alpinum	25 0 0 0 0 0 0 110 55 20	✓ ✓ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	FAC	Column Totals: 113 (A) 325 (B) Prevalence Index = B/A = 2.876 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)
5. 6. 7. 8. 9. 10. Her 1. 2.	Total Cover: 50% of Total Cover: Anthoxanthum monticola ssp. alpinum Arctagrostis latifolia	25 0 0 0 0 0 0 110 55 20 2	✓ ✓ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	FAC	Column Totals: 113 (A) 325 (B) Prevalence Index = B/A = 2.876 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)
5. 6. 7. 8. 9. 10. Her 1. 2.	Total Cover: Stratum 50% of Total Cover: Anthoxanthum monticola ssp. alpinum Arctagrostis latifolia	25 0 0 0 0 0 0 110 55 20 2 1 0	✓ ✓ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	FAC	Column Totals: 113 (A) 325 (B) Prevalence Index = B/A = 2.876 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.
5. 6. 7. 8. 9. 10. Hei 1. 2. 3. 4.	Total Cover: 50% of Total Cover: Anthoxanthum monticola ssp. alpinum Arctagrostis latifolia	25 0 0 0 0 0 110 55 20 2 1 0 0	✓ ✓ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	FAC	Column Totals: 113 (A) 325 (B) Prevalence Index = B/A = 2.876 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
5. 6. 7. 8. 9. 10. Her 1. 2. 3. 4. 5.	Total Cover: 50% of Total Cover: Anthoxanthum monticola ssp. alpinum Arctagrostis latifolia	25 0 0 0 0 0 110 55 20 2 1 0 0	✓ ✓ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	FAC	Column Totals: 113 (A) 325 (B) Prevalence Index = B/A = 2.876 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) % Cover of Wetland Bryophytes
5. 6. 7. 8. 9. 10. Her 1. 2. 3. 4. 5. 6.	Total Cover: 50% of Total Cover: Anthoxanthum monticola ssp. alpinum Arctagrostis latifolia	25 0 0 0 0 0 110 55 20 1 0 0 0 0	✓ ✓ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	FAC	Column Totals: 113 (A) 325 (B) Prevalence Index = B/A = 2.876 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) % Cover of Wetland Bryophytes (Where applicable)
5. 6. 7. 8. 9. 10. Her 1. 2. 3. 4. 5. 6. 7.	Total Cover: Stratum 50% of Total Cover: Anthoxanthum monticola ssp. alpinum Arctagrostis latifolia	25 0 0 0 0 0 110 55 20 2 1 0 0 0 0	✓ ✓ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	FAC	Column Totals: 113 (A) 325 (B) Prevalence Index = B/A = 2.876 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) % Cover of Wetland Bryophytes
5. 6. 7. 8. 9. 10. Hei 1. 2. 3. 4. 5. 6. 7.	Total Cover: 50% of Total Cover: Anthoxanthum monticola ssp. alpinum Arctagrostis latifolia	25 0 0 0 0 0 110 55 20 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0	✓ ✓ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	FAC	Column Totals: 113 (A) 325 (B) Prevalence Index = B/A = 2.876 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) % Cover of Wetland Bryophytes (Where applicable) % Bare Ground
5. 6. 7. 8. 9. 10. Heat 1. 2. 3. 4. 5. 6. 7. 8. 9.	Total Cover: Stratum 50% of Total Cover: Anthoxanthum monticola ssp. alpinum Arctagrostis latifolia	25 0 0 0 0 0 110 55 20 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0	✓ ✓ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	FAC	Column Totals: 113 (A) 325 (B) Prevalence Index = B/A = 2.876 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) % Cover of Wetland Bryophytes (Where applicable) % Bare Ground
5. 6. 7. 8. 9. 10. Hea 1. 2. 3. 4. 5. 6. 7. 8.	Total Cover: 50% of Total Cover: Anthoxanthum monticola ssp. alpinum Arctagrostis latifolia	25 0 0 0 0 0 110 55 20 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0		FAC 22 UPL FACW	Column Totals: 113 (A) 325 (B) Prevalence Index = B/A = 2.876 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) % Cover of Wetland Bryophytes (Where applicable) % Bare Ground Total Cover of Bryophytes

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SOIL Sampling Point: SW13_T172_02

(inches)	Color (m	oist)	%	Color (m	oist)	%	Type ¹	Loc ²	Texture	Remarks
0-2			100						Fibric Organics	
2-7	5YR	3/4	60	10YR	4/3	40		М	Loamy Sand	mixed matrix
7-13	10YR	4/6	90	7.5YR	5/8	10	RM	PL	Sand	_
13-16			100						Coarse Sand	coarse fragments subangular 30%
										-
						-		-	-	_
								-		_
Type: C=Cond	centration. D	=Depletior	າ. RM=Redu	ced Matrix	² Location	: PL=Pore	e Lining. RC	=Root Cha	annel. M=Matrix	-
ydric Soil In	dicators:			Indicate	ors for Pro	blematic	: Hydric So	oils: ³		
Histosol or I					ka Color Ch		4		Alaska Gleyed Without I	Hue 5Y or Redder
Histic Epipe	edon (A2)			Alas	ka Alpine sv	vales (TA5	5)		Underlying Layer	
Hydrogen S	Sulfide (A4)			Alas	ka Redox W	ith 2.5Y H	lue		Other (Explain in Rema	rks)
Thick Dark	Surface (A12	<u>?</u>)		3 One in	diantar of l	a. (duamb) d	ia vaaatatia		mary indicator of wetland	hudrologu
Alaska Gley							e position r			nydrology,
☐ Alaska Redo ☐	` '			4 Give	letails of co	lor change	e in Remark	'S		
	red Pores (A	.5)								
strictive Layer	r (if present)	:								
Type:									Hydric Soil Presen	t? Yes 🔾 No 🖲
Denth (inche	ec).									
		rved								
emarks:		rved:								
emarks: hydric soil inc	dicators obse									
emarks: hydric soil inc	dicators obse	ators:								licators (two or more are required)
YDROLOG etland Hydro	GY blogy Indicors (any one	ators:	ıt)						Water Sta	nined Leaves (B9)
YDROLOG Yetland Hydro rimary Indicato	GY blogy Indicors (any one ater (A1)	ators:	nt)				erial Image		Water Sta	nined Leaves (B9) Patterns (B10)
YDROLOG Tetland Hydro Timary Indicator Surface Wa High Water	GY blogy Indicors (any one ater (A1) r Table (A2)	ators:	nt)	☐ Sp	arsely Vege	tated Con	erial Image: ncave Surfac		Water Sta	nined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C
YDROLOG etland Hydro Surface Wa High Water	GY blogy Indicors (any one ater (A1) r Table (A2) (A3)	ators:	nt)	☐ Sp ☐ Ma	arsely Vege Irl Deposits	etated Con (B15)	ncave Surfac		Water Sta	nined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C of Reduced Iron (C4)
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YDROLOG Vetland Hydro Surface Wa High Water Saturation Water Mark	dicators observed and one of the core (any one of the core (A1) or Table (A2) (A3) ks (B1) Deposits (B2)	ators: is sufficier	nt)	☐ Sp ☐ Ma ☐ Hy ☐ Dr	arsely Vege Irl Deposits drogen Suli y-Season W	etated Con (B15) fide Odor /ater Table	ncave Surfac (C1) e (C2)		Water Sta Drainage Oxidized I Presence Salt Depo	nined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (Coof Reduced Iron (C4) Sits (C5) Or Stressed Plants (D1)
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