WETLAND DETERMINATION DATA FORM - Alaska Region

ct/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 01-Aug-13
eant/Owner: Alaska Energy Authority				Sampling Point: SW13_T141_10
		Landform (hill	side, terrac	e, hummocks etc.): Bench
		Slope:	% / 1.3	-
	l at ·	_		Long.: -148.253361108 Datum: NAD83
	Lat	03.22 1300232	.4	
		0 V	■ N= ○	NWI classification: PSS1B
	-			(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○
	-	-		iorniai oiroaniotarioco present:
vegetation . , Soil . , of Hydrology	naturany p	problematic?	(it nee	eded, explain any answers in Remarks.)
MARY OF FINDINGS - Attach site map show	wing sa	mpling point	locations	s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No C)			
Hydric Soil Present? Yes No C)			
)	Wi	thin a W	etland? Yes Vo U
narks:				
ETATION - Use scientific names of plants. Li	st all sp	ecies in the	plot.	
				Dominance Test worksheet:
ee Stratum			Status	Number of Dominant Species
	0			That are OBL, FACW, or FAC: 4 (A)
	0			Total Number of Dominant Species Across All Strata: 6 (B)
	_			Percent of dominant Species
	0			That Are OBL, FACW, or FAC: 66.7% (A/B)
	0			Prevalence Index worksheet:
Total Cover	<u> </u>	_		Total % Cover of: Multiply by:
pling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species0 x 1 =0
Salix pulchra	70	\checkmark	FACW	FACW Species 70 x 2 = 140
Vaccinium vitis idaea	5		FAC	FAC Species <u>27</u> x 3 = <u>81</u>
Spiraea stevenii	5		FACU	FACU Species 21 x 4 = 84
<u>'</u>	•	_ 📙	FACU	FACU Species 21 x 4 = 84 UPL Species 0 x 5 = 0
	0		FACU	UPL Species 0 x 5 = 0
	0		FACU	UPL Species $0 \times 5 = 0$ Column Totals: $118 \times (A) \times 305 \times (B)$
	0 0		FACU	UPL Species 0 x 5 = 0
	0 0		FACU	UPL Species $0 \times 5 = 0$ Column Totals: $118 \times (A) \times 305 \times (B)$
	0 0 0 0 0		FACU	UPL Species 0 x 5 = 0 Column Totals: 118 (A) 305 (B) Prevalence Index = B/A = 2.585 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%
	0 0 0 0 0		FACU	UPL Species $0 \times 5 = 0$ Column Totals: $118 \times (A) \times 305 \times (B)$ Prevalence Index = B/A = 2.585 Hydrophytic Vegetation Indicators:
Total Cover	0 0 0 0 0 0			UPL Species 0 $x = 0$ Column Totals: 118 (A) 305 (B) Prevalence Index = B/A = 2.585 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0 Morphological Adaptations (Provide supporting data in
Total Cover rb Stratum 50% of Total Cover:	0 0 0 0 0 0 0 0	graduation of Total Cover		UPL Species 0 $x = 0$ Column Totals: 118 (A) 305 (B) Prevalence Index = B/A = 2.585 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0 Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
Total Cover: Stratum 50% of Total Cover: Aconitum delphiniifolium	0 0 0 0 0 0 0 0 80 40 20	Grant Cover	: <u>16</u> FAC	UPL Species 0 $x = 0$ Column Totals: 118 (A) 305 (B) Prevalence Index = $B/A = 2.585$ 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)
Total Cover: Stratum 50% of Total Cover: Aconitum delphiniifolium Artemisia tilesii	0 0 0 0 0 0 0 0 80 40 20	of Total Cover	:16 FAC	UPL Species 0 x 5 = 0 Column Totals: 118 (A) 305 (B) Prevalence Index = B/A = 2.585 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0
Total Cover: Stratum 50% of Total Cover: Aconitum delphiniifolium Artemisia tilesii Rhodiola integrifolia	0 0 0 0 0 0 0 0 80 40 20	of Total Cover	: 16 FAC FACU FAC	UPL Species 0 $x = 0$ Column Totals: 118 (A) 305 (B) Prevalence Index = $B/A = 2.585$ 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)
Total Cover: Stratum Aconitum delphiniifolium Artemisia tilesii Rhodiola integrifolia Equisetum arvense	0 0 0 0 0 0 0 80 40 20 1 5 5	ow of Total Cover	: 16 FAC FACU FAC FAC	UPL Species 0 x 5 = 0 Column Totals: 118 (A) 305 (B) Prevalence Index = B/A = 2.585 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0
Total Cover: Stratum Aconitum delphiniifolium Artemisia tilesii Rhodiola integrifolia Equisetum arvense Carex bigelowii	0 0 0 0 0 0 0 80 40 20 1 5 5	of Total Cover	: 16 FAC FACU FAC FAC FAC	UPL Species 0 x 5 = 0 Column Totals: 118 (A) 305 (B) Prevalence Index = B/A = 2.585 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 % Cover of Wetland Bryophytes
Total Cover: 50% of Total Cover: Aconitum delphiniifolium Artemisia tilesii Rhodiola integrifolia Equisetum arvense Carex bigelowii Chamaenerion angustifolium	0 0 0 0 0 0 0 80 40 20 1 5 5 10 5	ow of Total Cover	: 16 FAC FACU FAC FAC	UPL Species 0 x 5 = 0 Column Totals: 118 (A) 305 (B) Prevalence Index = B/A = 2.585 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)
Total Coversible Stratum Aconitum delphiniifolium Artemisia tilesii Rhodiola integrifolia Equisetum arvense Carex bigelowii Chamaenerion angustifolium Viola palustris (IAM)	0 0 0 0 0 0 0 80 40 20 1 5 10 5 8 11	ow of Total Cover	FAC FAC FAC FAC FAC FAC	UPL Species 0 x 5 = 0 Column Totals: 118 (A) 305 (B) Prevalence Index = B/A = 2.585 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
Total Cover srb Stratum Aconitum delphiniifolium Artemisia tilesii Rhodiola integrifolia Equisetum arvense Carex bigelowii Chamaenerion angustifolium Viola palustris (IAM) Rubus arcticus (IAM)	0 0 0 0 0 0 0 0 0 40 20 1 5 5 10 5 8 1 3	ow of Total Cover	: 16 FAC FACU FAC FAC FAC FAC FAC	UPL Species 0 x 5 = 0 Column Totals: 118 (A) 305 (B) Prevalence Index = B/A = 2.585 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 % Cover of Wetland Bryophytes (Where applicable)
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	relief (concave, convex, none): hummocky gion: Interior Alaska Mountains ap Unit Name: imatic/hydrologic conditions on the site typical for this ti Vegetation , Soil , or Hydrology , or Hydrology Vegetation , Soil , or Hydrology , or Hydrophytic Vegetation Present?	igator(s): BAB relief (concave, convex, none): hummocky gion: Interior Alaska Mountains	Igator(s): BAB	Landform (hillside, terrace relief (concave, convex, none): hummocky Slope: % / 1.3

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SOIL Sampling Point: SW13_T141_10

Depth	on: (Describe to	Matrix		ent the ma		ox Featu		ators)		
(inches)	Color (mo	ist)	%	Color (m	oist)	%	Type ¹	_Loc_2	Texture	Remarks
0-3			100						Fibric Organics	
3-15	5Y	4/2	90	10YR	4/4	10	С	PL	Sandy Clay Loam	root casts were also 10yr 4/4
										•
										-
										-
						-		-		
						-				. ———
¹Type: C=Con	centration. D=	Depletion.	RM=Reduced	d Matrix	² Location	: PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil In	dicators:			Indicato	ors for Pro	blematic	: Hydric So	oils: ³		
Histosol or					a Color Ch		4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipe	. ,				a Alpine sv		-		Underlying Layer	ac 5. 6. Neace.
	Sulfide (A4)				a Redox W				Other (Explain in Remark	(S)
	Surface (A12))								
Alaska Gley							ic vegetation reposition r		nary indicator of wetland h	nydrology,
✓ Alaska Red	ox (A14)					·	•	•	esent	
Alaska Gley	ed Pores (A15	5)		⁴ Give d	etails of co	lor change	e in Remark	XS .		
Restrictive Layer	r (if present):									
Type:									Hydric Soil Present	? Yes No
Depth (inch	es):									
Remarks:										
thixotropic										
HYDBOI O	CV									
		tors:							Secondary Indi	cators (two or more are required)
Wetland Hydr	ology Indica)							cators (two or more are required)
Wetland Hydro	ology Indica)		undation Vi	sible on A	erial Image	ry (B7)	Water Stai	ned Leaves (B9)
Primary Indicat Surface Wa	ology Indica ors (any one i ater (A1))				erial Image cave Surfa		Water Stai	ned Leaves (B9) Patterns (B10)
Primary Indicat Surface Wa	ology Indica fors (any one i ater (A1) r Table (A2))	☐ Spa		tated Cor	erial Image cave Surfac		☐ Water Stai☐ Drainage F ✓ Oxidized R	ned Leaves (B9)
Primary Indicat Surface Wa	ology Indica cors (any one i ater (A1) r Table (A2) (A3))	Spa	arsely Vege	etated Cor (B15)	cave Surfac		☐ Water Stai☐ Drainage F ✓ Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4)
Wetland Hydro Primary Indicat Surface Wo High Wate ✓ Saturation Water Mar	ology Indica cors (any one i ater (A1) r Table (A2) (A3))	Spa	arsely Vege rl Deposits	etated Cor (B15) fide Odor	cave Surfac		□ Water Stai □ Drainage F ☑ Oxidized R □ Presence c □ Salt Depos	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4)
Wetland Hydro Primary Indicat ☐ Surface Wo ☐ High Wate ✓ Saturation ☐ Water Mar	ology Indica cors (any one i ater (A1) r Table (A2) (A3) cks (B1) Deposits (B2))	Spa	arsely Vege rl Deposits drogen Sulf	etated Cor (B15) fide Odor /ater Tabl	cave Surfac			ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5)
Primary Indicat Surface Wa High Wate Saturation Water Mar Sediment I Drift Depos	ology Indica cors (any one i ater (A1) r Table (A2) (A3) cks (B1) Deposits (B2))	Spa	arsely Vege rl Deposits drogen Sulf r-Season W	etated Cor (B15) fide Odor /ater Tabl	cave Surfac		Water Stai Drainage F ✓ Oxidized R Presence c Salt Depos Stunted or ✓ Geomorph	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) Stressed Plants (D1)
Primary Indicat □ Surface Wa □ High Wate ✓ Saturation □ Water Mar □ Sediment I □ Drift Depos	ology Indica cors (any one i ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4))	Spa	arsely Vege rl Deposits drogen Sulf r-Season W	etated Cor (B15) fide Odor /ater Tabl	cave Surfac		Water Stai Drainage F ✓ Oxidized R Presence c Salt Depos Stunted or ✓ Geomorph Shallow Ac	Patterns (B10) Chizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) Chizospheres along Living Roots (C3) of Stressed Plants (D1) ic Position (D2)
Metland Hydre Primary Indicat Surface Wa High Wate ✓ Saturation Water Mar Sediment I Drift Depos Algal Mat c I ron Depos	ology Indica cors (any one i ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4))	Spa	arsely Vege rl Deposits drogen Sulf r-Season W	etated Cor (B15) fide Odor /ater Tabl	cave Surfac		Water Stai □ Drainage F ✓ Oxidized R □ Presence of Salt Depose □ Stunted or ✓ Geomorph □ Shallow Ac □ Microtopog	Patterns (B10) Chizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) Stressed Plants (D1) ic Position (D2) quitard (D3)
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