WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	ct/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 05-Jul-13
Applic	cant/Owner: Alaska Energy Authority				Sampling Point: SW13_T136_01
	tigator(s): SLI, SCB		Landform (hill	side, terrac	ee, hummocks etc.): Bench
	relief (concave, convex, none): flat		Slope:	% / 1.3	-
Subre	egion : Southcentral Alaska	lat: (62.937577127		Long.: -149.167361259 Datum: NAD83
			02.937377121	0	
	lap Unit Name:		• V	<u> </u>	NWI classification: PEM1E
Are '	imatic/hydrologic conditions on the site typical for this Vegetation , Soil , or Hydrology Vegetation , Soil , or Hydrology	-	disturbed?		(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.)
SUM	MARY OF FINDINGS - Attach site map sho	wing sam	pling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No	\supset			
	Hydric Soil Present? Yes ● No (\supset	Is	the Sam	pled Area
	Wetland Hydrology Present? Yes No	_	wi	thin a W	etland? Yes ● No ○
Rem	narks: small peatland on bench, at toe of large, steep s		<u> </u>		
	ETATION -Use scientific names of plants. I	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species
1.	ee Stratum	% Cover 0	Species?	Status	That are OBL, FACW, or FAC:
2.					Total Number of Dominant
3.					Species Across All Strata: (B)
4.					Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.			П		
	Total Cove				Prevalence Index worksheet:
Sa	pling/Shrub Stratum 50% of Total Cover:		of Total Cover:	0	Total % Cover of: Multiply by:
					OBL Species 41.3 x1 = 41.3 FACW Species 0.1 x2 = 0.200
	Andromeda polifolia			FACW	
2.				FACU	
	Picea glauca			FACU	UPL Species 0 x 5 = 0
4. 5.					
					Column Totals: <u>41.6</u> (A) <u>42.3</u> (B)
6. 7.		0			Prevalence Index = B/A = 1.017
0					Hydrophytic Vegetation Indicators:
9.			П		✓ Dominance Test is > 50%
10.		- 0			✓ Prevalence Index is ≤3.0
	Total Coverb Stratum 50% of Total Cover:		of Total Cover	of Total Cover: 0.06 Morphological Adaptations ¹ (Provide supporting Remarks or on a separate sheet)	
1.	Trichophorum caespitosum	20	✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Eriophorum angustifolium	15	✓	OBL	¹ Indicators of hydric soil and wetland hydrology must
3.	Carex rotundata	5		OBL	be present, unless disturbed or problematic.
1	Carex aquatilis	1		OBL	Plot size (radius, or length x width) 10m
4.				OBL	Plot size (radius, or length x width)
5.	Drosera rotundifolia	0.1			
	Drosera rotundifolia Carex pauciflora			OBL	(Where applicable)
5.	Carex pauciflora	0.1		OBL	(Where applicable) % Bare Ground 0
5. 6. 7. 8.	Carex pauciflora Comarum palustre	0.1			
5. 6. 7. 8. 9.	Carex pauciflora Comarum palustre	0.1 0.1 0			% Bare Ground
5. 6. 7. 8.	Carex pauciflora Comarum palustre	0.1 0.1 0 0			% Bare Ground 0 40 Total Cover of Bryophytes 40 Hydrophytic
5. 6. 7. 8. 9.	Carex pauciflora Comarum palustre	0.1 0.1 0 0 0 0 41.3	of Total Cover	OBL	% Bare Ground 0 Total Cover of Bryophytes 40

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SOIL Sampling Point: SW13_T136_01

Depth ————	Matrix		edox Features		- <u>-</u> .	
(inches) Color (m	oist) %	Color (moist)	<u>%</u> <u>T</u>	ype ¹ Loc ²	Texture Sapric Organics	Remarks
0-1						
1-14					Hemic Organics	
					-	
Type: C=Concentration. D	=Depletion. RM=	Reduced Matrix ² Location	on: PL=Pore Lir	ning. RC=Root Ch	annel. M=Matrix	
Hydric Soil Indicators:		Indicators for P	roblematic Hy	ydric Soils: ³		
Histosol or Histel (A1)		Alaska Color (Change (TA4)		Alaska Gleyed Without H	ue 5Y or Redder
✓ Histic Epipedon (A2)		Alaska Alpine	swales (TA5)	_	Underlying Layer	
Hydrogen Sulfide (A4)		Alaska Redox	With 2.5Y Hue		☐ Other (Explain in Remarl	(S)
Thick Dark Surface (A12)	2.5				
Alaska Gleyed (A13)				egetation, one pri osition must be p	mary indicator of wetland h	nydrology,
Alaska Redox (A14)				·		
Alaska Gleyed Pores (A1	5)	⁴ Give details of	color change in	Remarks		
estrictive Layer (if present)						
Type: frozen					Hydric Soil Present	? Yes 💿 No 🔾
Depth (inches): 14 emarks:						
,						
emarks: YDROLOGY						
emarks: YDROLOGY Vetland Hydrology Indic						cators (two or more are required)
YDROLOGY Vetland Hydrology Indic Primary Indicators (any one					Water Stai	ned Leaves (B9)
Primary Indicators (any one ✓ Surface Water (A1)			Visible on Aeria		Water Stai	ned Leaves (B9) Patterns (B10)
Primary Indicators (any one ✓ Surface Water (A1) ✓ High Water Table (A2)		Sparsely Ve	getated Concav		Water Stai Drainage F Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3)
Primary Indicators (any one ✓ Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3)		Sparsely Ve	getated Concav ts (B15)	re Surface (B8)	Water Stai Drainage F Oxidized R Presence o	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4)
YDROLOGY Vetland Hydrology Indic Primary Indicators (any one ✓ Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1)	is sufficient)	Sparsely Ve Marl Deposi Hydrogen S	getated Concav ts (B15) ulfide Odor (C1	re Surface (B8)	Water Stai Drainage F Oxidized R Presence C Salt Depos	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5)
Primary Indicators (any one ✓ Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) — Sediment Deposits (B2)	is sufficient)	Sparsely Ve Marl Deposi Hydrogen S Dry-Season	getated Concav ts (B15) ulfide Odor (C1 Water Table (C	re Surface (B8))	Water Stai Drainage F Oxidized R Presence c Salt Depos	ned Leaves (B9) Patterns (B10) hitzospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) Stressed Plants (D1)
Primary Indicators (any one ✓ Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	is sufficient)	Sparsely Ve Marl Deposi Hydrogen S Dry-Season	getated Concav ts (B15) ulfide Odor (C1	re Surface (B8))	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) hits (C5) Stressed Plants (D1) hits Position (D2)
Primary Indicators (any one ✓ Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	is sufficient)	Sparsely Ve Marl Deposi Hydrogen S Dry-Season	getated Concav ts (B15) ulfide Odor (C1 Water Table (C	re Surface (B8))	Water Stai Drainage F Oxidized R Presence o Salt Depos Stunted or Geomorph	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) Stressed Plants (D1) ic Position (D2) quitard (D3)
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Primarks: YDROLOGY Vetland Hydrology Indic Primary Indicators (any one ✓ Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	is sufficient)	Sparsely Ve Marl Deposi Hydrogen S Dry-Season	getated Concav ts (B15) ulfide Odor (C1 Water Table (C	re Surface (B8))	Water Stai Drainage F Oxidized R Presence o Salt Depos Stunted or Geomorph	ned Leaves (B9) Patterns (B10) chizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) Stressed Plants (D1) ic Position (D2) quitard (D3) graphic Relief (D4)
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