WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 23-Jun-12
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T10_04
	gator(s): SLI, LMF		Landform (hills	side, terrac	ee, hummocks etc.): Channel (abandoned)
	relief (concave, convex, none): concave		Slope:		3 ° Elevation: 220
Subre	gion : Southcentral Alaska	Lat ·	62.784468334		Long.: -149.664795744 Datum: NAD83
		Lat	02.704400334		•
	ap Unit Name:		0 V	A Na O	NWI classification: PEM1E
	matic/hydrologic conditions on the site typical for this /egetation , Soil , or Hydrology				
	• • •	•	y disturbed?		ionnai oii oaniotanooo procont.
Are	/egetation ☐ , Soil ☑ , or Hydrology ☐	naturally p	roblematic?	(If nee	eded, explain any answers in Remarks.)
SUM	MARY OF FINDINGS - Attach site map sho	wing sar	npling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No	\supset			
	Hydric Soil Present? Yes ● No (\supset			pled Area
	Wetland Hydrology Present? Yes ● No (\supset	wi	thin a W	etland? Yes ◉ No ○
Rem	arks: fine substrate, seasonally flooded PEM wetland.	-			
/FG	ETATION -Use scientific names of plants. I	ict all cne	ocias in tha	alot	
	2 3 de scientine names of plants. I	-			Dominance Test worksheet:
Tre	e Stratum	Absolute % Cover		Indicator Status	Number of Dominant Species
1.		0			That are OBL, FACW, or FAC: 2 (A)
2.					Total Number of Dominant Species Across All Strata: 2 (B)
3.					Percent of dominant Species
4.					That Are OBL, FACW, or FAC: 100.0% (A/B)
5.					Prevalence Index worksheet:
	Total Cove	r: <u>0</u>			Total % Cover of: Multiply by:
Sa	oling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 31 x 1 = 31
	Calix murtillifalia	_	✓	FACW	FACW Species 8 x 2 = 16
2.	Salix myrtillifolia			FACW	FAC Species 5 x 3 = 15
3.		_			FACU Species 2 x 4 = 8
4.		_			UPL Species 1 x 5 = 5
5.					
6.					Column Totals: <u>47</u> (A) <u>75</u> (B)
7.		0			Prevalence Index = B/A = 1.596
8.		0			Hydrophytic Vegetation Indicators:
9.		_			✓ Dominance Test is > 50%
10.					✓ Prevalence Index is ≤3.0
	Total Cove	r: <u>5</u>			☐ Morphological Adaptations ¹ (Provide supporting data in
He	b Stratum 50% of Total Cover:	2.5 209	% of Total Cover	1	Remarks or on a separate sheet)
1.	Carex utriculata	30	✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Phalaris arundinacea	1		OBL	¹ Indicators of hydric soil and wetland hydrology must
3.	Taraxacum officinale			FACU	be present, unless disturbed or problematic.
4.	Equisetum arvense			FAC	Plot size (radius, or length x width) 2x10m
		3		FACW	% Cover of Wetland Bryophytes
5.	Equisetum palustre				
6.	Equisetum palustre Galeopsis bifida	1		UPL	(Where applicable)
6. 7.	Equisetum palustre Galeopsis bifida Mertensia paniculata	1		FACU	(Where applicable) % Bare Ground _98
6. 7. 8.	Equisetum palustre Galeopsis bifida Mertensia paniculata	1 1 0			
6. 7. 8. 9.	Equisetum palustre Galeopsis bifida Mertensia paniculata	1 1 0			% Bare Ground98
6. 7. 8. 9.	Equisetum palustre Galeopsis bifida Mertensia paniculata	1 1 0 0			% Bare Ground 98 Total Cover of Bryophytes 0 Hydrophytic
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SOIL Sampling Point: SW12_T10_04

Matrix Redox Features Nation Na
**Introduction
Hydric Soil Indicators: Indicators for Problematic Hydric Soils. Histosol or Histel (A1)
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Hydric Soil Indicators: Indicators for Problematic Hydric Soils Alaska Gleyed Without Hue 5Y or Redder Underlying Layer (Alaska Gleyed (A12) Alaska Redox With 2.5Y Hue
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Hydrogen Sulfide (A4)
Thick Dark Surface (A12) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed Pores (A15) Restrictive Layer (if present): Type: Depth (Inches): Remarks: no soil pit due to standing water throughout site. assume hydric soils based on hydrophytic vegetation and wetland hydrology. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one is sufficient) Frimary Indicators (any one is sufficient) High Water Table (A2) Sparsely Vegetated Concave Surface (B8) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Drift Deposits (B3) Other (Explain in Remarks) Geomorphic Position (D2) Microtopographic Relief (D4) Microtopographic Relief (D4)
Alaska Gleyed (A13) Alaska Redox (A14) Alaska Redox (A14) Alaska Redox (A15) Restrictive Layer (if present): Type: Depth (inches): Remarks: no soil pit due to standing water throughout site. assume hydric soils based on hydrophytic vegetation and wetland hydrology. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (anv one is sufficient) Primary Indicators (anv one is sufficient) High Water Table (A2) Saturation (A3) Marl Deposits (B15) Sediment Deposits (B1) Drift Deposits (B2) Dry-Season Water Table (C2) Algal Mat or Crust (B4) Iron Deposits (B5) Alaska Redox (A14) 4 Give details of color change in Remarks Hydric Soil Present? Yes ● No ○
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☐ Algal Mat or Crust (B4) ☐ Shallow Aquitard (D3) ☐ Iron Deposits (B5) ☐ Microtopographic Relief (D4)
☐ Iron Deposits (B5) ☐ Microtopographic Relief (D4)
☐ Surface Soil Cracks (B6) FAC-neutral Test (D5)
Field Observations:
Surface Water Present? Yes No Depth (inches): 4
Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches):
Saturation Present?
(includes capillary fillige)
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:
Remarks:
Remarks:
Remarks:
Remarks:

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