WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hyd	roelectric Project	Bo	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 18-Aug-15
Applica	int/Owner: Alaska Energy A	uthority				Sampling Point: SW15_T319_01
Investig	gator(s): BAB	,	ı	Landform (hill	side, terrac	e, hummocks etc.): Discharge Slope
Local r	elief (concave, convex, none)	concave		Slope: 5.2	% / 3.0	
Subrea	ion: Cook Inlet Mountains		Lat.:			Long.: Datum: WGS84
_	p Unit Name:					NWI classification: PEM1E
				. V	No ○	
	natic/hydrologic conditions on		•			(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○
	egetation , Soil .			disturbed?		ormai oii oamotanoes present:
Are V	egetation . , Soil .	, or Hydrology	naturally pro	oblematic?	(If nee	ded, explain any answers in Remarks.)
SUMN	MARY OF FINDINGS - A	ttach site map sho	wing sam	pling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Prese	ent? Yes O No)			
	Hydric Soil Present?	Yes No		Is	the Sam	pled Area
	•	Yes No		w	thin a W	etland? Yes No
	Wetland Hydrology Present?					
Rema	arks: discharge slope with rivu	ets. western side more	nerbaceous	•		
VEGE	TATION - Use scientific	names of plants Li	ict all cna	cias in tha	nlot	
	. TATION - 03e scientific	names of plants. L	ist all spe	cies iii tiie	piot.	Dominance Test worksheet:
_			Absolute	Dominant	Indicator	Number of Dominant Species
1.	e Stratum		% Cover	_Species?_	Status	That are OBL, FACW, or FAC: 4 (A)
						Total Number of Dominant
2. 3.						Species Across All Strata: 4 (B)
3. 4.						Percent of dominant Species That Are OBL, FACW, or FAC:100.0% (A/B)
5.						111at Ale OBE, 1 AOW, 01 1 AC. 100.070 (A/B)
J.		Total Cover				Prevalence Index worksheet:
Cam	line /Church Church	50% of Total Cover:		of Total Cover:	0	Total % Cover of: Multiply by:
Зар	ling/Shrub Stratum	50% of Total Cover.	0 20%		0	OBL Species <u>35</u> x 1 = <u>35</u>
1.	Dasiphora fruticosa		8	<u>~</u>	FAC	FACW Species 14.1 x 2 = 28.20
2.	Picea mariana		5	✓	FACW	FAC Species <u>16</u> x 3 = <u>48</u>
3.			2		FACW	FACU Species 0 x 4 = 0
	Betula glandulosa				FAC	UPL Species <u>0</u> x 5 = <u>0</u>
5.						Column Totals: <u>65.1</u> (A) <u>111.2</u> (B)
6.						Prevalence Index = B/A =1.708_
7.						11700
8.						Hydrophytic Vegetation Indicators:
9.						✓ Dominance Test is > 50%
10.						✓ Prevalence Index is ≤3.0
Harl	b Stratum_	Total Cover 50% of Total Cover:		of Total Cover	: 3.4	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
		3070 01 10101 001011		✓	OBL	Problematic Hydrophytic Vegetation (Explain)
	Trichophorum caespitosum Menyanthes trifoliata		6	✓	OBL	
2.	Swortia poroppie				FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3. 4.	Comprise policitro				OBL	
5.	Caray canitata				FAC	Plot size (radius, or length x width)
6.	Caray agreetilia		2		OBL	% Cover of Wetland Bryophytes (Where applicable)
-	Distanthara aquilania				FACW	
8.	Factures eltains		2		FAC	
9.	Eriophorum angustifolium		2		OBL	Total Cover of Bryophytes
	Parnassia palustris		0.1		FACW	Hydrophytic
	p	Total Cover		_		Vegetation
		50% of Total Cover:2		of Total Cover:	9.62	Present? Yes No
Rem	arks:					
1.0						

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW15_T319_01

Total content Secondary Indicators Tender Remarks	Depth	Matrix			dox Featu			. <u> </u>	
14-16 100 Musy Peat **Type: C-Concentration. D=Depletion. RM=Reduced Matrix ** Location: PL=Pore Lining. RC=Rook Charmel. M=Matrix **Hydric Soil Indicators:		moist)		Color (moist)	<u>%</u>	Type ¹	_Loc_ ²	Texture	Remarks
Type: C=Concentration. D=Depletion. RM=Reduced Matrix Location: PL=Pore Lining, RC=Root Channel. M=Matrix Hydric Soil Indicators:								-	-
Indicators for Problematic Hydric Soils Alaska Cloyer Change (TAp) Alaska Alpine swales (TAp) Alaska Alpine water (TAp) Alaska Reyow (Mrt. 257 Hue Other (Explain in Remarks) Alaska Redox With 2.57 Hue Other (Explain in Remarks) Alaska Redox With 2.57 Hue Other (Explain in Remarks) Alaska Redox With 2.57 Hue Other (Explain in Remarks) Alaska Redox (Al14) Alaska Redox (Al15) Alaska Redox With 2.57 Hue Other (Explain in Remarks) Alaska Redox With 2.57 Hue Other (Explain in Remarks) Alaska Redox With 2.57 Hue Other (Explain in Remarks) Alaska Redox With 2.57 Hue Other (Explain in Remarks) Alaska Redox With 2.57 Hue Other (Explain in Remarks) Alaska Gleyed Pores (Al15) Alaska Redox With 2.57 Hue Other (Explain in Remarks) Alaska Redox With 2.57 Hue Other (Explain in Remarks) Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Other (Explain in Remarks) Alaska Redox With 2.57 Hue Other (Explain in Remarks) Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Other (Explain in Remarks) Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Other (Explain in Remarks) Water Stain Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Other (Explain in Remarks) Water Stain Alaska Redox With 2.57 Hue Other (Explain in Remarks) Water Marka (B1) Drainage Patterns (B10) Water Marka (B1) Present?	14-16							миску Реат	
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Histosol or Histel (A1)		D-Depiction	- Teduce					milet Pi-Piduix	
Histic Epipedon (A2)						4)iis:] Alaska Claused With aut 11	FV D- dd
Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A15) Alaska Gleyed Pores (A15) Alaska Gleyed Poresent): Type: Bryantic Layer (if present): Bryantic Layer (if						-			ue 5Y or Redder
Thick Dark Surface (A12) Alaska Gleyed (A13) Alaska Redox (A14) Alaska Redox (A14) Alaska Redox (A15) Alaska Redox (A16) Alaska Redox (A16) Alaska Redox (A17) Alaska Redox (A18) Alaska Redox (A19) Alaska	= '' '				•	•		, , ,	(5)
Alaska Gleyed (A13) Alaska Redox (A14) Alaska Redox (A14) Alaska Redox (A14) Alaska Redox (A15) **Give details of color change in Remarks **Bestrictive Layer (if present): Type: Depth (inches): **Primary Indicators **Bestrictive Layer (if present): Type: Depth (inches): **Bestrictive Layer (if present): Type: Depth (inches): Depth (inches): Depth (inches): Depth (inches): 3 Depth (inches): 0 Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: **Bestrictive Layer (if present): Type: Hydric Soil Present? Yes No Depth (inches): 0 **Bestrictive Layer (if present): Present? Yes No Depth (inches): 0 Depth (i	_ ′ ້ ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `			AldSka Redux	Wiui Z.51 II	ue		Outer (Explain in Remain	۵)
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Alaska Gleyed Pores (A15) *Give details of color change in Remarks **Restrictive Layer (if present): Type:				and an appropria	ite landscap	e position r	nust be pre	esent	
Hydric Soil Present? Yes No No No	_ ` ′	۸15)		4 Give details of o	color change	in Remark	S		
Type: Depth (inches): PYDROLOGY Vetiand Hydrology Indicators: Very Surface Water (A1) Very High Water Table (A2) Vetiand Square Water (A1) Very Square Water (A1) Very Square Water (A1) Very High Water Table (A2) Very Square Water (A2) Very Square Water (A3) Very High Water Table (A2) Very Square Water (A1) Very High Water Table (A2) Very Square Water (A1) Very High Water Table (A2) Very Square Water (A1) Very High Water Table (A2) Very Square Water (A1) Very High Water Table (A2) Very Square Water (A1) Very Square Water (B8) Very Square Water Water (B8) Very Square Water Water (B8) Very Square Water Water (B8) Very Square Water Water (B9) Very Square Water (B8) Very Square Water (B9) Very Square Water (B1) Very Square Water (B1) Very Square Water (B1) Very Square Water Water Water Water Water Water (B9) Very Square Water		-							
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PyDROLOGY Vetland Hydrology Indicators:	* *							Hyaric Soil Present	? Yes 🙂 No 🔾
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Wetland Hydrology Indicators: Primary Indicators (any one is sufficient) ✓ Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) ✓ Water Marks (B1) ✓ Drift Deposits (B3) ✓ In Drift Deposits (B5) ✓ Surface Soil Cracks (B6) ✓ Surface Soil Cracks (B6) ✓ Surface Water Present? ✓ Seduration Present? ✓ Secondary Indicators (two or more are required) ✓ Water Stained Leaves (B9) ✓ Drainage Patterns (B10) ✓ Oxidized Rhizospheres along Living Roots (C ✓ Saturation (A3) ✓ Mari Deposits (B15) ✓ Presence of Reduced Iron (C4) ✓ Salt Deposits (C5) ✓ Salt Deposits (C5) ✓ Salt Deposits (C5) ✓ Stunted or Stressed Plants (D1) ✓ Thy Drift Deposits (B3) ✓ Geomorphic Position (D2) ✓ Shallow Aquitard (D3) ✓ Inon Deposits (B5) ✓ Surface Soil Cracks (B6) ✓ FAC-neutral Test (D5) Field Observations: Surface Water Present? Yes No Depth (inches): 3 Water Table Present? Yes No Depth (inches): 0	, , ,								
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✓ High Water Table (A2) Sparsely Vegetated Concave Surface (B8) Oxidized Rhizospheres along Living Roots (C ✓ Saturation (A3) Marl Deposits (B15) Presence of Reduced Iron (C4) Water Marks (B1) Hydrogen Sulfide Odor (C1) Salt Deposits (C5) Sediment Deposits (B2) Dry-Season Water Table (C2) Stunted or Stressed Plants (D1) Drift Deposits (B3) Other (Explain in Remarks) ✓ Geomorphic Position (D2) Algal Mat or Crust (B4) Shallow Aquitard (D3) Microtopographic Relief (D4) Iron Deposits (B5) Microtopographic Relief (D4) FAC-neutral Test (D5) Feld Observations: Surface Water Present? Yes No Depth (inches): 3 Wetland Hydrology Present? Yes No Depth (inches): 0 Water Table Present? Yes No Depth (inches): 0 Depth (inches): 0 Wetland Hydrology Present? Yes No Depth (inches): 0 Vescribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Remarks:	emarks: YDROLOGY	icators:						Secondary Indi	cators (two or more are required)
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Sediment Deposits (B2) □ Dry-Season Water Table (C2) □ Stunted or Stressed Plants (D1) □ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorphic Position (D2) □ Shallow Aquitard (D3) □ Shallow Aquitard (D3) □ Microtopographic Relief (D4) □ FAC-neutral Test (D5) □ FAC-neutral Test (D5) □ Surface Soil Cracks (B6) □ Depth (inches): 3 □ Depth (inches): 3 □ Depth (inches): 0 □ Depth (inch	YDROLOGY Vetland Hydrology Inc Primary Indicators (any o V Surface Water (A1)	ne is sufficien	t)					Water Stai Drainage F	ned Leaves (B9) atterns (B10)
□ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorphic Position (D2) □ Shallow Aquitard (D3) □ Shallow Aquitard (D3) □ Shallow Aquitard (D3) □ Surface Soil Cracks (B5) □ Microtopographic Relief (D4) □ FAC-neutral Test (D5) □ Surface Water Present? Yes ○ No ○ Depth (inches): 3 □ Water Table Present? Yes ○ No ○ Depth (inches): 0 □ Wetland Hydrology Present? Yes ○ No ○ Depth (inches): 0 □ Depth (YDROLOGY Vetland Hydrology Inc Primary Indicators (any o ✓ Surface Water (A1) ✓ High Water Table (A	ne is sufficien	t)	Sparsely Veg	getated Con			Water Stai Drainage F Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3)
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☐ Iron Deposits (B5) ☐ Microtopographic Relief (D4) ☐ Surface Soil Cracks (B6) ☐ FAC-neutral Test (D5) ☐ FAC-neutral Test (D5	YDROLOGY Vetland Hydrology Inc Primary Indicators (any o Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1)	ne is sufficien	t)	Sparsely Veg Marl Deposit Hydrogen Su	getated Con ts (B15) ulfide Odor (cave Surfac		Water Stai Drainage F Oxidized R Presence c Salt Depos	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4) its (C5)
Surface Soil Cracks (B6) FAC-neutral Test (D5) Field Observations: Surface Water Present? Yes No Depth (inches): 3 Water Table Present? Yes No Depth (inches): 0 Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Remarks:	Primary Indicators (any o ✓ Surface Water (A1) ✓ High Water Table (A ✓ Saturation (A3) Water Marks (B1) — Sediment Deposits (I	ne is sufficien	t)	Sparsely Veg Marl Deposit Hydrogen St Dry-Season	getated Cond ts (B15) ulfide Odor (Water Table	cave Surfac (C1) e (C2)		Water Stai Drainage F Oxidized R Presence c Salt Depos Stunted or	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) hits (C5) Stressed Plants (D1)
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