WETLAND DETERMINATION DATA FORM - Alaska Region

rojec	t/Site: Susitna-Watana Hydroelectric Project	Bo	rough/City:	Matanusk	ca-Susitna Borough Sampling Date: 18-Aug-15
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW15_T320_06
	gator(s): SLI. SCB	L	andform (hill	side, terrac	e, hummocks etc.): Footslope
	relief (concave, convex, none): none) ° Elevation:
	gion : Cook Inlet Mountains	Lat.:			Long.: Datum: WGS84
	ap Unit Name:			<u> </u>	NWI classification: PSS1B
	matic/hydrologic conditions on the site typical for this	•		● No ○	, , ,
	/egetation ☐ , Soil ☐ , or Hydrology ☐	significantly			ionnai oli odinotanoco procont.
Are V	egetation ☐ , Soil ☐ , or Hydrology ☐	naturally pro	blematic?	(If nee	eded, explain any answers in Remarks.)
IMU	MARY OF FINDINGS - Attach site map sh	nowing sam	pling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No	0			
	Hydric Soil Present? Yes ● No	0	Is	the Sam	pled Area
	Wetland Hydrology Present? Yes ● No		w	ithin a W	etland? Yes ● No ○
Rem:	arks: Characterizing saturated area with dwarf shrub		ro and ctroar	m (plot SW)	15 T320 05) transitions to E hydro dominated by
TCITI	Trichophorum spp.	is. Detween ne	ire and sulear	ii (piot 3w)	15_1520_05), transitions to E flydro dominated by
/FGF	ETATION - Use scientific names of plants.	List all spec	ries in the	nlot	
LOI	- TATION - Use scientific flames of plants.	List all spec	les III tile	ριστ.	Dominance Test worksheet:
		Absolute	Dominant Species 2	Indicator Status	Number of Dominant Species
1re 1.	e Stratum	% Cover	Species?	Status	That are OBL, FACW, or FAC:5(A)
2.					Total Number of Dominant
3.					Species Across All Strata: 5 (B)
3. 4.					Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.					That Ale OBE, I AOW, OF I AC
0.	Total Cov	rer: 0			Prevalence Index worksheet:
625	oling/Shrub Stratum 50% of Total Cover:		of Total Cover:	0	Total % Cover of: Multiply by:
Sap	ming/Sili ub Stratum		_		OBL Species <u>8.1</u> x 1 = <u>8.1</u>
1.	Vaccinium uliginosum	30	✓	FAC	FACW Species <u>0.2</u> x 2 = <u>0.400</u>
2.	Empetrum nigrum		✓	FAC	FACUS paging 2 x 3 = 226.2
3.	Betula nana			FAC	FACU Species 0 x 4 = 0
4.	Rhododendron tomentosum			FACW	UPL Species <u>0</u> x 5 = <u>0</u>
5.	Dasiphora fruticosa			FAC	Column Totals: <u>83.7</u> (A) <u>234.7</u> (B)
6.					Prevalence Index = B/A = 2.804
7.					
8.					Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%
9.					
10.	Total Cov				✓ Prevalence Index is ≤3.0
Her	b Stratum 50% of Total Cover:		of Total Cover	: 12.04	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
1.	Equisetum arvense	10	✓	FAC	Problematic Hydrophytic Vegetation (Explain)
2.	Calamagrostis canadensis		~	FAC	Indicators of hydric soil and wetland hydrology must
3.	Frienherum angustifolium			OBL	be present, unless disturbed or problematic.
3. 4.	Trichophorum coospitosum			OBL	
5.	Cornus suecica			FAC	Plot size (radius, or length x width)
6.	Spiranthes romanzoffiana	0.1		OBL	% Cover of Wetland Bryophytes (Where applicable)
7.	Tofieldia pusilla	0.1		FAC	% Bare Ground
8.	Rubus chamaemorus			FACW	Total Cover of Bryophytes 50
9.	Gentiana glauca			FAC	
10.		0			Hydrophytic
	Total Cov	er: 23.5			Vegetation
			.f T.+-1 C		Present? Yes No
	50% of Total Cover:	<u>11.75</u> 20% (or rotal Cover:	4.7	Tresent.

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW15_T320_06

Secondary Seco	Color (moist) Most	Depth –		the depth nee 1atrix	eded to docume	ent the indicator or co	nfirm the abse		ators)		
3-15 2/1 100	3-15		Color (mo	ist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
15-16 10YR 4/4 100	15-16 10/R 4/4 100 Price Sand 16-20	0-3								Peat	
16-20 10YR 4/4 100 Fire-Sand 21-24 1000 Mursky Prost 1 Type: C=Concentration, D=Depiletion, RM=Reduced Matrix 2 Location: PL=Pire Lining, RC=Root Channel, M=Matrix Hydric Soil Indicators: Maska Gloyer Indicators Mursky Prost Musky Prost	16-20 10VR 4/4 100 Fine-Sind 21-24 10VR 4/4 100 Fine-Sind 21-24 100 Mucky Peat 1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix ½ Location: PL=Pere Lining, RC=Root Channel, M=Matrix Hydric Soil Indicators:	3-15		2/1	100					Mucky Peat	
20-21 10YR 4/4 100	20-21 10YR 4/4 100	15-16	10YR	4/4	100					Fine Sand	
1 Type: (C=Concentration, D=Depletion, RM=Reduced Matrix 2 Location: PL=Pore Linling, RC=Root Channel, M=Matrix Hydric Soil Indicators:	21-24 100 Mucky Peat Type: C=Concentration. D=Depletion. RM=Reduced Matrix ³ Location: PL=Pore Lining. RC=Root Channel. M=Matrix Hydric Soil Indicators:	16-20			100					Mucky Peat	
21-24	21-24 100	20-21	10YR	4/4	100					Fine Sand	
**Type: C=Concentration. D=Depletion. RM=Reduced Matrix ** Location: PL=Pore Lining, RC=Root Channel, M=Matrix Hydric Soil Indicators:	Type: C=Concentration. D=Depletion. RM=Reduced Matrix Indicators:	21-24			100					Mucky Peat	
Hydric Soil Indicators: Histosol or Histel (A1)	Hydric Soil Indicators: Indicators for Problematic Hydric Soils										
Histosol or Histel (A1)	Histosol or Histal (A1)	¹Type: C=Conce	entration. D=	Depletion.	RM=Reduced	d Matrix ² Locatio	n: PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix	
Histosol or Histel (A1)	Histosol or Histal (A1)	Hydric Soil Ind	dicators:			Indicators for P	oblematic	Hvdric Sc	oils: ³		
Histic Epipedon (A2)	Histic Epipedon (A2)							4		Alaska Gleved Without Hi	ıe 5Y or Redder
Hydrogen Sulfide (A4)	Hydrogen Sulfide (A4)	_	. ,				• , ,		_		ie 31 of Reddel
Thick Dark Surface (A12) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed Pores (A15) Alaska Gleye	Thick Dark Surface (A12) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A14) Alaska Gleyed Pores (A15) Alaska Redx (A14) Alaska Redx (A14) Alaska Redx (A14) Alaska Gleyed Pores (A15) Alaska Redx (A14) Alaska Gleyed Pores (A15) Alaska Redx (A14) Alaska Gleyed Pores (A15) Alaska Redx (A15) Alaska Gleyed Pores (A15) Alaska Gle	=					, ,			Other (Explain in Remark	s)
Alaska Gleyed (A13)	Alaska Gleyed (A13) Alaska Gleyed (Pres (A15) 4 Give details of color change in Remarks 4 Give detail		. ,								
Alaska Redox (A14) Alaska Redox (A15) AGive details of color change in Remarks Restrictive Layer (if present): Type: Depth (inches): Remarks: In2s odor when digging soil pit. Hydric Soil Present? Yes No No No No No Hydric Soil Present? Yes No	Alaska Redox (A14)		` '								ydrology,
Restrictive Layer (if present?): Type: Depth (inches): Hydric Soil Present? Yes No Depth (inches): Water Table (22) Scondary Indicators (two or more are required) Water Table (27) Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Saturation (A3) Hydrogen Sulfide Odor (C1) Saturation Present? Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No No Depth (inches): Wetland Hydrology Present? Yes No No Depth (inches): Wetland Hydrology Present? Yes No No Depth (inches):	Restrictive Layer (if present): Type: Depth (inches): Remarks: h2s odor when digging soil pit. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one is sufficient)						•	•	•	sent	
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HYDROLOGY Wetland Hydrology Indicators:	HYDROLOGY Wetland Hydrology Indicators:	Depth (inches	s):								
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Water Marks (B1)	Water Marks (B1)		. ,					ave Surfac	e (B8)		
Sediment Deposits (B2)	Sediment Deposits (B2)										* *
□ Drift Deposits (B3) □ Other (Explain in Remarks) ☑ Geomorphic Position (D2) □ Algal Mat or Crust (B4) □ Shallow Aquitard (D3) □ Microtopographic Relief (D4) □ Surface Soil Cracks (B6) ☑ FAC-neutral Test (D5) ☐ Surface Water Present? Yes ○ No ○ Depth (inches): Water Table Present? Yes ○ No ○ Depth (inches): 6 Saturation Present? Yes ○ No ○ Depth (inches): 4 ☐ Wetland Hydrology Present? Yes ○ No ○ Depth (inches): 4 ☐ Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	□ Drift Deposits (B3) □ Other (Explain in Remarks) ☑ Geomorphic Position (D2) □ Algal Mat or Crust (B4) □ Shallow Aquitard (D3) □ Microtopographic Relief (D4) □ Surface Soil Cracks (B6) ☑ FAC-neutral Test (D5) ☐ Surface Water Present? Yes ○ No ○ Depth (inches): Water Table Present? Yes ○ No ○ Depth (inches): 6 Saturation Present? Yes ○ No ○ Depth (inches): 4 ☐ Wetland Hydrology Present? Yes ○ No ○ Depth (inches): 4 ☐ Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:										
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Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): 6 Saturation Present? Yes No Depth (inches): 4 Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Remarks:	Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): 6 Saturation Present? (includes capillary fringe) Depth (inches): 4 Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Remarks:	Drift Deposi	r Crust (B4) its (B5)							Shallow Aq	raphic Relief (D4)
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