WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	B	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 25-Aug-15
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T318_08
nvestigator(s): AFW		Landform (hil	lside, terrac	e, hummocks etc.): Toeslope
Local relief (concave, convex, none): hummocky		Slope: 5.2	% / 3.0	- ·
·	L of :			Long.: Datum: WGS84
Subregion : Cook Inlet Mountains	Lat.: _			
Soil Map Unit Name:				NWI classification: Upland
Are Vegetation , Soil , or Hydrology SUMMARY OF FINDINGS - Attach site map sho	significantly naturally pr wing sam	y disturbed? oblematic?	(If nee	(If no, explain in Remarks.) formal Circumstances" present? Yes ● No ○ ided, explain any answers in Remarks.) s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No			41 0	unland Assault
Hydric Soil Present? Yes No @)			pled Area
Wetland Hydrology Present? Yes O No @)	W	ithin a W	etland? Yes ○ No •
Remarks:		·		
VEGETATION - Use scientific names of plants. Li	st all spe	cies in the	plot.	Dominance Test worksheet:
Tree Stratum	% Cover	Species?	Status	Number of Dominant Species
1. Picea glauca	25	\checkmark	FACU	That are OBL, FACW, or FAC: 2 (A)
Betula neoalaskana	20	✓	FACU	Total Number of Dominant Species Across All Strata: 8 (B)
3.	0			Percent of dominant Species
4.	0			That Are OBL, FACW, or FAC: 25.0% (A/B)
5.	0			Prevalence Index worksheet:
Total Cover	45			Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	22.5 20%	of Total Cover	:9	OBL Species 0 x 1 = 0
1. Salix pulchra	7	✓	FACW	FACW Species 7 x 2 = 14
Spiraea stevenii	7	✓	FACU	FAC Species 19 x 3 = 57
2 Petula pagalagkana		✓	FACU	FACU Species 87 x 4 = 348
Betula neoalaskana Linnaea borealis	5		FACU	UPL Species 0 x 5 = 0
F Vaccinium uliginacum	3		FAC	
Vaccinium diginosum Salix pseudomonticola	3		FAC	Column Totals: <u>113</u> (A) <u>419</u> (B)
Vaccinium vitis-idaea			FAC	Prevalence Index = B/A = 3.708
8. Ribes triste	1		FAC	Hydrophytic Vegetation Indicators:
O Desirbana fo finance	1		FAC	Dominance Test is > 50%
9. Dasipnora fruticosa 10.			FAC	Prevalence Index is ≤3.0
Total Cover Herb Stratum 50% of Total Cover:		6 of Total Cove		Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
Cornus canadensis	10	✓	FACU	Problematic Hydrophytic Vegetation (Explain)
Calamagrostis canadensis		<u> </u>	FAC	Indicators of hydric soil and wetland hydrology must
Chamaenerion angustifolium		<u> </u>	FACU	be present, unless disturbed or problematic.
Dryopteris expansa			FACU	
Gymnocarpium dryopteris			FACU	Plot size (radius, or length x width) 10m
6. Aconitum delphiniifolium	2		FAC	% Cover of Wetland Bryophytes 0 (Where applicable)
7. Mertensia paniculata	- 1		FACU	% Bare Ground55
8. Orthilia secunda			FACU	Total Cover of Bryophytes 40
9.				10
10.	0			Hydrophytic
Total Cover	34			Vegetation
50% of Total Cover:	17 20%	of Total Cover	:6.8	Present? Yes No •
Remarks:				

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW15_T318_08

Color (moiet) No. Color (moiet) No. Color (moiet) No. Type: Loc. 2 Texture Remarks	Profile Description: (Describe	Matrix			dox Features				
Set 100°R 4/3 100 spring semangular cabalas, m soil mann grante semangular cabalas, m soil mannular kabalas cabalas soils. M salas Calcor medium grante semants kabalas cabalas soils soil mannas semangular cabalas kabalas cabalas soils. M salas Calcor medium grante semants kabalas cabalas soils soils semants kabalas cabalas soils soils semants kabalas cabalas soils soils semants kabalas cabalas soils soil	: .	moist)	%	Color (moist)	<u>%</u>	Type ¹ Lo	<u>c</u> 2	Texture	Remarks
9-15 100 grante semiangular cobbes, no soll mutio 1 Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel. N=Matrix Hydric Soil Indicators:	0-5		100				ŀ	Hemic Organics	with buried ash layer
*Type: C=Concentration, D=Depletion, RM=Reduced Matrix * Location: PL=Pore Lining, RC=Root Channel, M=Matrix * Hydric Soil Indicators:	5-9 10YR	4/3	100					Silt Loam	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix Type: C=Concentration, D=Depletion, RM=Reduced Matrix Location: PL=Pore Lining, RC=Root Channel, M=Matrix Mydric Soil Indicators:	9-15		100						granite semiangular cobbles, no soil matrix
Hydric Soil Indicators: Histosol or Histel (A1)									
Hydric Soil Indicators: Histosol or Histel (A1)									-
Hydric Soil Indicators: Histosol or Histel (A1)									
Hydric Soil Indicators: Histosol or Histel (A1)									
Hydric Soil Indicators: Histosol or Histel (A1)									
Hydric Soil Indicators: Histosol or Histel (A1)									
Histosol or Histel (A1)	¹Type: C=Concentration	D=Depletion	n. RM=Reduced	Matrix ² Location	on: PL=Pore Li	ning. RC=Roo	t Chann	el. M=Matrix	
Histic Epipedon (A2)	Hydric Soil Indicators:			Indicators for P	roblematic H	ydric Soils: ³			
Hydrogen Suffice (A4)	Histosol or Histel (A1			Alaska Color (Change (TA4)				ue 5Y or Redder
Thick Dark Surface (A12) Alaska Gleyed (A13) and an appropriate landscape position must be present Alaska Redox (A14) Alaska Redox (A14) 4 Give details of color change in Remarks Restrictive Layer (if present):	Histic Epipedon (A2)			Alaska Alpine	swales (TA5)				
Alaska Gleyed (A13)	Hydrogen Sulfide (A4)		Alaska Redox	With 2.5Y Hue			Other (Explain in Remark	(S)
Alaska Gelyedr (A15)	☐ Thick Dark Surface (A	.12)		•					
Alaska Gleyed Pores (A15) Alaska Gleyed Pores (A15) Alaska Gleyed Pores (A15) Type: Depth (Inches): Remarks: Soil pit below 10 inches is interlocking stones with little to no fine mineral soil. no hydric soil indicators. Hydric Soil Present? Yes No ● Remarks: Soil pit below 10 inches is interlocking stones with little to no fine mineral soil. no hydric soil indicators. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one is sufficient) Secondary Indicators (two or more are required) Primary Indicators (any one is sufficient) Mater Salined Leaves (89) Drainage Patterns (B10) High Water Table (A2) Sparsely Vegetated Concave Surface (88) Saturation (A3) Marl Deposits (B15) Presence of Reduced Iron (C4) Salit Deposits (C5) Sediment Deposits (B2) Dry-Season Water Table (C2) Drift Deposits (B3) Dry-Season Water Table (C2) Drift Deposits (B3) Dry-Season Water Table (C2) Drift Deposits (B3) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C3) Surface Soil Cracks (B6) FAC-neutral Test (D5) Feld Observations: Surface Water Present? Yes No ● Depth (inches): Depth (inches): Depth (inches): Depth (inches): Describe Recorded Data (Stream gauge, monitor well, aerial photos, previous inspection) if available: Remarks:	Alaska Gleyed (A13)								ydrology,
Restrictive Layer (if present): Type: Depth (inches): Remarks: soil pit below 10 inches is interlocking stones with little to no fine mineral soil. no hydric soil indicators. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one is sufficient)	Alaska Redox (A14)						ic prese	iiic	
Type: Depth (inches): Remarks: soil pit below 10 inches is interlocking stones with little to no fine mineral soil. no hydric soil indicators. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one is sufficient)	Alaska Gleyed Pores	A15)		⁴ Give details of	color change in	Remarks			
Depth (inches): Remarks: soil pit below 10 inches is interlocking stones with little to no fine mineral soil. no hydric soil indicators. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one is sufficient) Surface Water (A1) High Water Table (A2) Sparsely Vegetated Concave Surface (B8) Sutface Water (A1) High Water Table (A2) Sparsely Vegetated Concave Surface (B8) Saturation (A3) Marl Deposits (B15) Presence of Reduced Iron (C4) Salt Deposits (B2) Sparsely Vegetated Concave Surface (B8) Sufface Water (A1) Sparsely Vegetated Concave Surface (B8) Saturation (A3) Saturation (A3) Sparsely Vegetated Concave Surface (B8) Saturation (A2) Sparsely Vegetated Concave Surface (B8) Saturation (A3) Sparsely Vegetated Concave Surface (B8) Sparsely Vegetated Concave (B9) Surface Surface Match Present? Yes No Pepth (inches): Wetland Hydrology Present? Yes No Pethology Surface Surface Match Present? Yes No Pethology Surface Surface Match Present? Yes No Pethology Surface Match Present? Yes No Pethology Surface Surface Match Pres	Restrictive Layer (if preser	it):							
Remarks: soil pit below 10 inches is interlocking stones with little to no fine mineral soil. no hydric soil indicators. HYDROLOGY Wetland Hydrology Indicators:	Type:						F	lydric Soil Present	? Yes O No 💿
HYDROLOGY Wetland Hydrology Indicators:	Depth (inches):							•	
Wetland Hydrology Indicators:									
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□ Surface Water (A1) □ Inundation Visible on Aerial Imagery (B7) □ Drainage Patterns (B10) □ High Water Table (A2) □ Sparsely Vegetated Concave Surface (B8) □ Oxidized Rhizospheres along Living Roots (C3) □ Saturation (A3) □ Marl Deposits (B15) □ Presence of Reduced Iron (C4) □ 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) □ Surface Soil Cracks (B6) □ FAC-neutral Test (D5) □ Surface Water Present? Yes □ No ● Depth (inches): □ Depth (in									
High Water Table (A2)	Wetland Hydrology Inc								
Saturation (A3)	Wetland Hydrology Inc Primary Indicators (any o		nt)					Water Stai	ned Leaves (B9)
Water Marks (B1)	Wetland Hydrology Inc Primary Indicators (any o	ne is sufficier	nt)			• , ,	•	Water Stai Drainage F	ned Leaves (B9) Patterns (B10)
Sediment Deposits (B2)	Wetland Hydrology Inc Primary Indicators (any o Surface Water (A1) High Water Table (A	ne is sufficier	nt)	Sparsely Ve	getated Conca	• , ,	•	Water Stai Drainage F Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3)
□ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorphic Position (D2) □ Shallow Aquitard (D3) □ Iron Deposits (B5) □ Microtopographic Relief (D4) □ Surface Soil Cracks (B6) □ FAC-neutral Test (D5) Field Observations: Surface Water Present? Yes ○ No ② Depth (inches): Water Table Present? Yes ○ No ② Depth (inches): Saturation Present? Yes ○ No ② Depth (inches): Saturation Present? Yes ○ No ③ Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Remarks:	Primary Indicators (any o Primary Indicators (any o Surface Water (A1) High Water Table (A Saturation (A3)	ne is sufficier	nt)	Sparsely Ve	getated Conca	• , ,	•	☐ Water Stai☐ Drainage F☐ Oxidized R☐ Presence c	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4)
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heard water trickling underground, however we did not encounter water table in pit.	Wetland Hydrology Inc Primary Indicators (any o Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Field Observations: Surface Water Present? Water Table Present? (includes capillary fringe)	re is sufficient 2) 32) 4) Yes (Yes (No ●No ●No ●No ●	Sparsely Ve Marl Deposi Hydrogen S Dry-Season Other (Explain Depth (inch Depth (inch	getated Concarts (B15) ulfide Odor (Ci Water Table (Gain in Remarks es): es):	ve Surface (B8	etland	Water Stai Drainage F Oxidized R Presence o Salt Depos Stunted or Geomorph Shallow Ac Microtopog FAC-neutra	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) its (C5) Stressed Plants (D1) ic Position (D2) quitard (D3) graphic Relief (D4) al Test (D5)
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