WETLAND DETERMINATION DATA FORM - Alaska Region

Project/	Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date:24-Aug-15
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW15_T350_03
	pator(s): ERT, TXC		Landform (hill	side, terrac	e, hummocks etc.): Hillside
	elief (concave, convex, none): convex		Slope: 64.9	% / 33.0	O ° Elevation:
	ion : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84
-					
	p Unit Name:		2 V	No ○	NWI classification: Upland
Are Vo	egetation , Soil , or Hydrology n	ignificantly aturally pr	/ disturbed? oblematic?	Are "N (If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.)
SUMN	IARY OF FINDINGS - Attach site map show	ving sam	ipling point	locations	, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes 💿 No 🔾				
	Hydric Soil Present? Yes ○ No ●				pled Area
	Wetland Hydrology Present? Yes ○ No ●		wi	thin a W	etland? Yes O No 💿
Rema	rks:				
	TATION - Use scientific names of plants. Lis	st all spe Absolute % Cover	Dominant Species?	plot. Indicator Status	Dominance Test worksheet: Number of Dominant Species That are ORL FACW or FAC:
1.	Betula neoalaskana	_ 2		FACU	That are OBL, FACW, or FAC: (A)
2.		0		-	Total Number of Dominant Species Across All Strata: 3 (B)
3.		0			Percent of dominant Species
4.		0			That Are OBL, FACW, or FAC: 66.7% (A/B)
5.		0			Prevalence Index worksheet:
	Total Cover:				Total % Cover of: Multiply by:
Sapl	ing/Shrub Stratum 50% of Total Cover:	1 20%	of Total Cover:	0.4	OBL Species 0 x 1 = 0
1.	Alnus viridis ssp. crispa	78	✓	FAC	FACW Species 4 x 2 = 8
	Rhododendron groenlandicum	3		FAC	FAC Species 90 x 3 = 270
	Rosa acicularis	3		FACU	FACU Species 14.1 x 4 = 56.40
4.	Vaccinium vitis-idaea	3 2 2		FAC	UPL Species <u>0</u> x 5 = <u>0</u>
5.	Betula glandulosa	2		FAC	Column Totals: <u>108.1</u> (A) <u>334.4</u> (B)
6.	Ribes triste	1		FAC	
7.	Picea glauca	1		FACU	Prevalence Index = B/A = 3.093
8.	Vaccinium uliginosum	1		FAC	Hydrophytic Vegetation Indicators:
9.	Rhododendron tomentosum	_1_		FACW	✓ Dominance Test is > 50%
10.		0			Prevalence Index is ≤3.0
Herl	Total Cover: 50% of Total Cover:		of Total Cover	:18.4	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
1.	Spinulum annotinum	6	~	FACU	Problematic Hydrophytic Vegetation (Explain)
2.	Petasites frigidus	3	✓	FACW	¹ Indicators of hydric soil and wetland hydrology must
3.	Rubus arcticus(IAM)			FACU	be present, unless disturbed or problematic.
4.	Calamagrostis canadensis			FAC	Plot size (radius, or length x width)
	Equisetum sylvaticum			FAC	% Cover of Wetland Bryophytes
6.	Boschniakia rossica	0.1		FACU	(Where applicable)
					% Bare Ground
					Total Cover of Bryophytes 65
		0			
10.	Total Cavan				Hydrophytic
	Total Cover: 50% of Total Cover: 7		of Total Cover	2 82	Vegetation Present? Yes ● No ○
Rema	50% of Total Cover:7 arks: Abundant leaf litter. 2% unid grass. Senesced b				

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SOIL Sampling Point: SW15_T350_03

Gindesity Sole (moist) Sole (moist) Sole Color (moist) Sole Type: Loc. Texture Remarks	Color (molets) Solor (molets) Solor (molets) Solor Trype: Location Shirt Colorans Shirt Col	Profile Description: (Describe	to the depth n	eeded to docume		onfirm the abs edox Featu		ators)				
9-4 -8 10YR 3/3 -8-13 10YR 5/4 13-20 10YR 4/3 100 -1	9-4 -8 10YR 3/3 -8-13 10YR 5/4 13-20 10YR 4/3 100 -1	,, i ,	moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
8-13 10VR 5/4 13-20 10VR 4/3 100	8-13 10VR 5/4 13-20 10VR 4/3 100	0-4							Fibric Organics	Oi		
13-20 10YR 4/3 100 Loamy Coarse Sand C Type: C—Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining. RC=Root Channel. M=Matrix Pydric Soll Indicators: Indicators for Problematic Hydric Solls? Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Hydric Solls alaska (Color Change (TA4) Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Hydrogen Solide (A4) Alaska Redox WIII. 257 Hue Other (Colon in Remarks) Other (Colon in Remarks)	13-20 10YR 4/3 100 Loamy Coarse Sand C Type: C—Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining. RC=Root Channel. M=Matrix Pydric Soll Indicators: Indicators for Problematic Hydric Solls? Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Hydric Solls alaska (Color Change (TA4) Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Hydrogen Solide (A4) Alaska Redox WIII. 257 Hue Other (Colon in Remarks) Other (Colon in Remarks)	4-8 10YR	3/3						Silt Loam	Α		
13-20 10YR 4/3 100 Loamy Coarse Sand C Loamy Coarse Metrix Loamy Coarse Sand C Loamy Coarse Mark S Loamy Carse Sand C Loamy Coarse Sand C Loamy Carse Sand C Loamy Coarse Sand C Loamy Carse Sand C Loamy Carse Sand C Loamy Carse Sand C Loamy Sand S Loamy Sand S Loamy Sand S Loady S Loamy Sand S Loamy Sand S Loamy S Loamy S Loamy S Loady S Loamy S Loady S Loamy	13-20 10YR 4/3 100 Loamy Coarse Sand C Type: C—Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining. RC=Root Channel. M=Matrix Pydric Soll Indicators: Indicators for Problematic Hydric Solls? Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Hydric Solls alaska (Color Change (TA4) Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Hydrogen Solide (A4) Alaska Redox WIII. 257 Hue Other (Colon in Remarks) Other (Colon in Remarks)	8-13 10YR	5/4						Sandy Clay Loam			
**Type: C-Concentration. D-Depletion. RM-Reduced Matrix **Location: PL=Pore Lining. RC=Root Channel. M=Matrix **Hydric Soil Indicators:	¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Charmel. M=Matrix Hydric Soil Indicators:			100								
Hydric Soil Indicators: Histosol or Histe (A1)	Hydric Soil Indicators: Histosol or Histe (A1)		- 4/3						Loanly Coarse Sai			
Hydric Soil Indicators: Histosol or Histe (A1)	Hydric Soil Indicators: Histosol or Histe (A1)											
Hydric Soil Indicators: Histosol or Histe (A1)	Hydric Soil Indicators: Histosol or Histe (A1)											
Hydric Soil Indicators: Histosol or Histe (A1)	Hydric Soil Indicators: Histosol or Histe (A1)					_						
Histosol or Histel (A1)	Histosol or Histel (A1)	¹Type: C=Concentration.	 D=Depletion	RM=Reducec	Matrix ² Location	n: PL=Pore	e Lining. RO	=Root Cha	annel. M=Matrix			
Histosol or Histel (A1)	Histosol or Histel (A1)	Hydric Soil Indicators:			Indicators for P	roblematic	c Hydric S	oils: ³				
Histic Epipedon (A2)	Histic Epipedon (A2)			ſ			4		Alaska Gleved W	ithout Hue 5	SV or Redder	
Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Alaska Redox (A12) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed Rores (A15) Alaska Gleyed Pores (A15)	Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Alaska Redox (A12) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed Rores (A15) Alaska Gleyed Pores (A15)	` '		Ī	_		•				71 of Redder	
Thick Dark Surface (A12) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Redox (A14) Alaska Redox (A15) Alaska Gleyed Pores (A15) Alask	Thick Dark Surface (A12) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A14) Alaska Radox (A15) Alaska Gleyed Pores (A15) Ala		١	Ī		•	•		Other (Explain ir	n Remarks)		
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Alaska Redox (A14)	Alaska Redox (A14) Alaska Gleyed Pores (A15) Restrictive Layer (if present): Type: Depth (inches): Remarks: no hydric soil indicators, steep grade, do not believe sandy clay loam would restrict water. A very old paleoterrace of the Suisitna River appears to be about this same elevation on the other side of the river. The original parent material is either river alluvium or glacial outwash that is now transported colluvium. AYDROLOGY		/							vetland hydro	ology,	
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Remarks: no hydric soil indicators, steep grade, do not believe sandy clay loam would restrict water. A very old paleoterrace of the Suisitna River appears to be about this same elevation on the other side of the river. The original parent material is either river alluvium or glacial outwash that is now transported colluvium. Application Primary Indicators (any one is sufficient) Water Stained Leaves (B9)	Remarks: no hydric soil indicators, steep grade, do not believe sandy clay loam would restrict water. A very old paleoterrace of the Suisitna River appears to be about this same elevation on the other side of the river. The original parent material is either river alluvium or glacial outwash that is now transported colluvium. Application Primary Indicators (any one is sufficient) Water Stained Leaves (B9)	Restrictive Layer (if preser	t):								_	
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Saturation (A3)	Saturation (A3)	Remarks: no hydric soil indicators. st elevation on the other side HYDROLOGY Wetland Hydrology Ind Primary Indicators (any or	of the river.	The original p	arent material is	either river a	alluvium or	glacial out	wash that is now t	dary Indicato	ors (two or more are requeetee)	
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Sediment Deposits (B2)	Sediment Deposits (B2)	Remarks: no hydric soil indicators. st elevation on the other side HYDROLOGY Wetland Hydrology Ind Primary Indicators (any or Surface Water (A1) High Water Table (A2)	of the river. icators: ne is sufficien	The original p	☐ Inundation☐ Sparsely Ve	either river of the control of the c	alluvium or	glacial out	Second Do Oo	dary Indicato ater Stained rainage Patte	ors (two or more are req Leaves (B9) erns (B10) espheres along Living Ro	uired)
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