WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/C	ity: Matanusk	a-Susitna Borough Sampling Date: 25-Aug-15
Applicant/Owner: Alaska Energy Authority		p-	Sampling Point: SW15_T318_02
Investigator(s): AFW	Landform	(hillside, terrac	e, hummocks etc.): Mountainslope
Local relief (concave, convex, none): undulating	Slope:	5.2 % / 3.0	· · · · · · · · · · · · · · · · · · ·
	Lat.:		Long.: Datum: WGS84
Soil Map Unit Name:			
		Yes No	NWI classification: Upland
Are climatic/hydrologic conditions on the site typical for this time α Are Vegetation \Box , Soil \Box , or Hydrology \Box signi	,		(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○
	ficantly disturbe		
Are Vegetation 🗋 , Soil 🗌 , or Hydrology 🗋 natu	rally problematic	(If nee	ded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	g sampling po	pint locations	, transects, important features, etc.
Hydrophytic Vegetation Present? Yes O No 🔍			
Hydric Soil Present? Yes O No O		Is the Sam	
Wetland Hydrology Present? Yes O No •		within a W	etland? Yes \bigcirc No $oldsymbol{eta}$
Remarks: closed tall alder	I		
VEGETATION - Use scientific names of plants. List a	II species in t	he plot.	
AL	aluta Damina	nt Indiantar	Dominance Test worksheet:
	solute Domina <u>Cover Specie</u>	ant Indicator s? <u>Status</u>	Number of Dominant Species
1]	That are OBL, FACW, or FAC:(A)
2.]	Total Number of Dominant Species Across All Strata: 3 (B)
3.]	Percent of dominant Species
4.]	That Are OBL, FACW, or FAC: 33.3% (A/B)
5.]	Prevalence Index worksheet:
Total Cover:			Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover: 0	_ 20% of Total Co	over: 0	OBL Species x 1 =
1. Alnus viridis	65 🗸	FAC	FACW Species x 2 =
2. Ribes triste	5	FAC	FAC Species <u>83</u> x 3 = <u>249</u>
3.	0]	FACU Species <u>31</u> x 4 = <u>124</u>
4.	0]	UPL Species x 5 =
5	0]	Column Totals: <u>114</u> (A) <u>373</u> (B)
6	0]	Prevalence Index = B/A =
7			
8	<u> </u>		Hydrophytic Vegetation Indicators:
9	0]	Dominance Test is > 50%
10	0		Prevalence Index is ≤3.0
Total Cover: Herb Stratum 50% of Total Cover: 35	<u>70</u> 20% of Total C	Cover: 14	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
1. Dryopteris expansa	20		Problematic Hydrophytic Vegetation (Explain)
2. Spinulum annotinum	7		¹ Indicators of hydric soil and wetland hydrology must
3. Rubus pedatus	5	FAC	be present, unless disturbed or problematic.
4. Calamagrostis canadensis	5	FAC	
5. Trientalis europaea	3	FACU	Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes 0
6. Equisetum sylvaticum	3	FAC	% Cover of Wetland Bryophytes (Where applicable)
7. Cornus canadensis	1	FACU	% Bare Ground _1
8	0		Total Cover of Bryophytes 7
9	0	J	
10	0]	Hydrophytic
			Vegetation Present? Yes No •
50% of Total Cover:2	_ 20% of Total C	over: <u>8.8</u>	
Remarks:			

Donth		Aatrix		ument the indicator or con Red	lox Featu		ators)			
Depth (inches)	Color (moi	ist)	%	Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks	
0-3			100					Fibric Organics	leaf litter	
3-4			100					Sapric Organics		
4-7	10YR	2/2	100		-			Silt Loam	some organic content	
7-19	10YR	3/3	100					Sandy Loam	fine to coarse semirounded gravel	
		-,-								
		,								
·							p			
¹ Type: C=Concen	ntration. D=	Depletion	. RM=Redu	iced Matrix ² Location	: PL=Por	e Lining. RC	C=Root Cha	nnel. M=Matrix		
Hydric Soil Indic	cators:	_	_	Indicators for Pro	oblemati	c Hydric S	oils: ³			
Histosol or His	stel (A1)			Alaska Color Ch	ange (TA	4) 4] Alaska Gleyed Without I	Hue 5Y or Redder	
Histic Epipedo	. ,			Alaska Alpine swales (TA5)				Underlying Layer		
Hydrogen Sulf	fide (A4)			Alaska Redox W	/ith 2.5Y I	Hue		Other (Explain in Rema	·ks)	
Thick Dark Sur	ırface (A12)							· · · · · · · · · · · · · · · · · · ·		
Alaska Gleyed	(A13)			One indicator of l and an appropriate				nary indicator of wetland esent	hydrology,	
Alaska Redox (
Alaska Gleyed	Pores (A15	;)		⁴ Give details of co	lor chany	e in Remark	(S			
Restrictive Layer (if	f present):									
Type:							ĺ	Hydric Soil Presen	t? Yes 🔿 No 🖲	
Depth (inches):):									
Remarks:										
Remarks:										
Remarks:										
Remarks:										
Remarks: no hydric soil indica	ators									
Remarks: no hydric soil indica HYDROLOGY	ators Y	hors:						Secondary Inc	icators (two or more are required)	
Remarks: no hydric soil indica	ators Y ogy Indica		t)						icators (two or more are required) ined Leaves (B9)	
Remarks: no hydric soil indica HYDROLOGY Wetland Hydrolo	ators Y ogy Indica s (any one is		<u>t)</u>	Inundation Vi	sible on A	verial Image	rv (B7)	Water Sta		
Remarks: no hydric soil indica HYDROLOGY Wetland Hydrolo _Primary Indicators	ators Y ogy Indica s (any one is cr (A1)		t)	Inundation Vis Sparsely Vege		5	, , ,	Water Sta	ined Leaves (B9)	
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Remarks: no hydric soil indica HYDROLOGY Wetland Hydrolo Primary Indicators Surface Water High Water Ta	ators Y ogy Indicar s (any one is er (A1) Table (A2) 3)			Sparsely Vege	etated Cor (B15)	ncave Surfa	, , ,	Water Sta	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4)	
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soils moist, but not saturated. no wetland hydrology indicators.