WETLAND DETERMINATION DATA FORM - Alaska Region

rojec	ct/Site: Susitna-Watana Hydroelectric Project	orough Sampling Date: 06-Aug-13					
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T174_05		
	igator(s): WAD, RWM	lside, terrac	ace, hummocks etc.): willow drainage feature				
	relief (concave, convex, none): concave		Slope: 5.2 % / 3.0 ° Elevation: 1030				
	gion : Interior Alaska Mountains	l at :					
		Lat	03.303430018				
	ap Unit Name:		2 V	No ○	NWI classification: Upland		
Are '	Vegetation ☐ , Soil ☐ , or Hydrology ☐ I	significantl naturally p wing san	y disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No No eded, explain any answers in Remarks.) Iormal Circumstances" present? Yes No		
	() () () () () () () () () ()		Is	the Sam	pled Area		
	Hydric Soil Present? Yes O No 🖲		within a Wetland? Yes ○ No ●				
	Wetland Hydrology Present? Yes No C)					
	narks: ETATION - Use scientific names of plants. Li	st all spe		•	Dominance Test worksheet:		
	ee Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)		
1.		0			Total Number of Dominant		
2.		0			Species Across All Strata: 4 (B)		
3.		0			Percent of dominant Species		
4.		0			That Are OBL, FACW, or FAC: 75.0% (A/B)		
5.		0			Prevalence Index worksheet:		
	Total Cover				Total % Cover of: Multiply by:		
Sa	pling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	0	OBL Species x 1 =0		
1.	Salix pulchra	90	✓	FACW	FACW Species 93 x 2 = 186		
2.	Salix reticulata	15		FAC	FAC Species <u>36</u> x 3 = <u>108</u>		
3.		5		FAC	FACU Species <u>5</u> x 4 = <u>20</u>		
4.		0			UPL Species 0 x 5 = 0		
5.					Column Totals: <u>134</u> (A) <u>314</u> (B)		
6.		_					
7.		0			Prevalence Index = B/A = 2.343		
8.		0			Hydrophytic Vegetation Indicators:		
9.		0			✓ Dominance Test is > 50%		
10.		0			✓ Prevalence Index is ≤3.0		
He	Total Cover rb Stratum 50% of Total Cover:		% of Total Cove	r: <u>22</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
1.	Festuca altaica	5	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Mertensia paniculata		~	FACU	¹ Indicators of hydric soil and wetland hydrology must		
3.	Calamagrostis canadensis		<u> </u>	FAC	be present, unless disturbed or problematic.		
4.	Arctagrostis latifolia			FACW	Plot size (radius, or length x width) 10m		
	A consequence of the conference:			FAC	% Cover of Wetland Bryophytes		
5.	Anemone richardsonii			FAC	(Where applicable)		
6.	Rumex arcticus						
6. 7.	Rumex arcticus Carex microchaeta	2		FAC	% Bare Ground		
6. 7. 8.	Rumex arcticus Carex microchaeta	0		FAC	% Bare Ground Total Cover of Bryophytes5		
6. 7. 8. 9.	Rumex arcticus Carex microchaeta	0		FAC	Total Cover of Bryophytes		
6. 7. 8. 9.	Rumex arcticus Carex microchaeta	0 0 0		FAC	Total Cover of Bryophytes		
6. 7. 8. 9.	Rumex arcticus Carex microchaeta	2 0 0 0	G of Total Cover		Total Cover of Bryophytes		

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SOIL Sampling Point: SW13_T174_05

	ion: (Describe to t	the depth ne	eded to docu	ment the inc		firm the ab		ators)						
Depth (inches) Color (moist)		ict)			r (moist) Type ¹		Tyne ¹	Loc ²	- Texture	Remarks				
0-3	COIOI (IIIO	130)	100	COIOI (II	ioiscj	_/0_	Турс	LUC	Fibric Organics					
3-18	10YR	4/3	100						Silt Loam	with buried organics				
-				10)/D	4/6				-	with buried organics				
18-24	2.5Y	4/2		10YR	4/6	20	C	M	Fine Sand					
						-		-						
						-		-						
¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix														
Hydric Soil I	Hydric Soil Indicators: Indicators for Problematic Hydric Soils. ³													
Histosol or	r Histel (A1)			Alas	ka Color Ch	ange (TA	1)4		Alaska Gleyed Without Hue 5Y or Redder					
Histic Epip	pedon (A2)			L Alas	ka Alpine sv	vales (TA5	5)		Underlying Layer					
Hydrogen	Sulfide (A4)			Alas	ka Redox W	ith 2.5Y F	lue		Other (Explain in Remark	rs)				
Thick Dark	k Surface (A12)	1		3 One i	adicator of l	ovedrop by et	ic vogotatio	n one prir	mary indicator of wetland h	vdrology				
Alaska Gle							e position r			ydrology,				
Alaska Red				4 Give	letails of co	lor change	e in Remark	c						
	eyed Pores (A15	5)		Give	ictalis of co	ior change	e iii Neiliai k	s 						
Restrictive Laye	er (if present):													
Type:									Hydric Soil Present	? Yes ○ No •				
Depth (inch	nes):													
·														
HYDROLO	GY													
Wetland Hyd	rology Indica	tors:							Secondary Indi	cators (two or more are required)				
Primary Indica	ntors (any one i	s sufficient	:)						Water Stained Leaves (B9)					
Surface Water (A1)				Inundation Visible on Aerial Imagery (B7)				y (B7)	✓ Drainage Patterns (B10)					
High Wate	Sparsely Vegetated Concave Surface (B8)					Oxidized R	hizospheres along Living Roots (C3)							
Saturation	Marl Deposits (B15)					Presence of Reduced Iron (C4)								
Water Marks (B1)					Hydrogen Sulfide Odor (C1)				☐ Salt Depos					
Sediment Deposits (B2)					y-Season W					Stressed Plants (D1)				
Drift Depo				☐ Ot	her (Explair	in Rema	rks)			ic Position (D2)				
	or Crust (B4)									uitard (D3)				
☐ Iron Depo	. ,									raphic Relief (D4) Il Test (D5)				
Field Observa	oil Cracks (B6)								FAC-fleutra	il Test (D3)				
Surface Water		Yes C	No •	D	epth (inches	.).								
			No •			,		Matia.	u d Haduslana Duasan	t? Yes • No O				
Water Table F				De	epth (inches	s):		wetia	nd Hydrology Presen	t? Yes S NO C				
Saturation Pre (includes capi		Yes O	No 💿	De	epth (inches	s):								
Describe Recor	ded Data (strea	am gauge,	monitor we	ll, aerial p	hotos, prev	ious inspe	ction) if ava	ilable:						
Remarks:														
similar to previous willow drainage feature on this transect. evidence of innundated depressions and channels but dry. no primary hydro indicators observed.														
The state of the s														

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