WETLAND DETERMINATION DATA FORM - Alaska Region

Tojecti	Site: Susitna-Watana Hydroelectric Project	Bo	prough/City:	Matanusk	a-Susitna Borough Sampling Date: 01-Aug-12			
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW12_T52_07			
nvestig	pator(s): CTS, EKJ	L	Landform (hillside, terrace, hummocks etc.): Flat					
_ocal re	elief (concave, convex, none): flat		Slope: % / 1.3 ° Elevation: 689					
Subrea	ion : Interior Alaska Mountains	Lat.: 6	62.7888898098 Long.: -148.522830739 Datum: NAD83					
-	p Unit Name:		NWI classification: PEM1E					
	natic/hydrologic conditions on the site typical for this t	ime of voor?	y Voc	• No ()	(If no, explain in Remarks.)			
Are V Are V	egetation, Soil, or Hydrology	significantly naturally pro	disturbed? oblematic?	Are "N (If nee	lormal Circumstances" present? Yes $ullet$ No $igodot$ eded, explain any answers in Remarks.)			
	Hydrophytic Vegetation Present? Yes 🖲 No 🤇)						
	Hydric Soil Present? Yes 🔍 No	$\mathbf{)}$	Is the Sampled Area					
	Wetland Hydrology Present? Yes No	thin a W	'etland? Yes $ullet$ No $igloodow$					
	rks: Sedge-moss bog, maybe too small to map but de	ocuments th	e photosignat	ure				
	TATION - Use scientific names of plants. L	ist all spec Absolute % Cover	cies in the Dominant Species?	plot. Indicator Status	Dominance Test worksheet: Number of Dominant Species			
1.		0			That are OBL, FACW, or FAC: (A)			
2.		0			Total Number of Dominant Species Across All Strata: 1 (B)			
3.		0						
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		0						
	Total Cover	: 0			Prevalence Index worksheet: Total % Cover of: Multiply by:			
Sap	ing/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species $3 \times 1 = 3$			
					FACW Species $10 \times 2 = 20$			
1.					FAC Species $0 \times 3 = 0$			
2. 3.					FACU Species $0 \times 4 = 0$			
4.					UPL Species $0 \times 5 = 0$			
5.								
6.					Column Totals: <u>13</u> (A) <u>23</u> (B)			
7.					Prevalence Index = B/A = <u>1.769</u>			
8.					Hydrophytic Vegetation Indicators:			
					✓ Dominance Test is > 50%			
10		0			✓ Prevalence Index is ≤ 3.0			
	Total Cove	: 0			 Morphological Adaptations¹ (Provide supporting data in 			
Her	50% of Total Cover:		of Total Cover	: 0	Remarks or on a separate sheet)			
1	Eriophorum russeolum	10	\checkmark	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)			
				OBL	¹ Indicators of hydric soil and wetland hydrology must			
	Equisetum fluviatile	-						
2.	Carox magallanica	1		OBL	be present, unless disturbed or problematic.			
2. 3.	Carex magellanica	1		OBL				
2. 3. 4.	Carex magellanica Carex aquatilis	1			Plot size (radius, or length x width) <u>10m</u>			
2. 3. 4. 5.	Carex magellanica	1 1 0						
2. 3. 4. 5. 6.	Carex magellanica Carex aquatilis	1 1 0 0			Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes 100			
2. 3. 4. 5. 6. 7.	Carex magellanica Carex aquatilis				Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes 100 (Where applicable) 100			
2. 3. 4. 5. 6. 7. 8.	Carex magellanica Carex aquatilis				Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes 100 (Where applicable) 0			
2. 3. 4. 5. 6. 7. 8. 9.	Carex magellanica Carex aquatilis				Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes 100 (Where applicable) 0 % Bare Ground 0 Total Cover of Bryophytes 100 Hydrophytic 100			
2. 3. 4. 5. 6. 7. 8. 9.	Carex magellanica Carex aquatilis	1 0 0 0 0 0 0 0 0 0 0 0 0 0 13		OBL	Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes 100 (Where applicable) 0 % Bare Ground 0 Total Cover of Bryophytes 100			

SOIL

		he depth need latrix	ed to docum	o document the indicator or confirm the absence of indicators) Redox Features						
Depth (inches)							Loc ²	Texture	Remarks	
0-14	Color (moi		<u>% </u>	Color (moist)	%	Type ¹	Loc -	Fibric Organics	2% roots	
						· ·			2 % 100ts	
					p					
	. <u> </u>				-					
¹ Type: C=Cor	ncentration. D=	Depletion. R	M=Reduce	ed Matrix ² Location:	PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix		
Hydric Soil I	ndicators:			Indicators for Pro	blemati	c Hydric So	oils: ³			
Histosol or	r Histel (A1)			Alaska Color Cha	ange (TA	4 1)		Alaska Gleyed Without H	ue 5Y or Redder	
	edon (A2)			Alaska Alpine sv	vales (TA	5)		Underlying Layer		
	Sulfide (A4)			Alaska Redox W				Other (Explain in Remark	s)	
	surface (A12)									
Alaska Gle	()							nary indicator of wetland h	ydrology,	
Alaska Gio				and an appropriate	e landscap	be position r	nust be pre	esent		
	eyed Pores (A15)	\		⁴ Give details of col	lor chang	e in Remark	S			
)								
Restrictive Laye	er (if present):									
Type:								Hydric Soil Present	? Yes 🖲 No 🔾	
Depth (incl	nes):									
Remarks:										
HYDROLO	GY									
	rology Indicat	ore						Socondan/ Indi	cators (two or more are required)	
-	itors (any one is								ned Leaves (B9)	
Surface W		Sumclent)							Patterns (B10)	
High Wate	. ,			Inundation Vis		-			hizospheres along Living Roots (C3)	
Saturation				Sparsely Vege		icave Surrac	е (во)		f Reduced Iron (C4)	
Water Ma				Marl Deposits		(C1)		Salt Depos		
	Deposits (B2)			Hydrogen Sulf						
				Dry-Season W		()			Stressed Plants (D1)	
	()			Other (Explain	i in Rema	rks)			ic Position (D2)	
	or Crust (B4)								uitard (D3)	
	oil Cracks (B6)							FAC-neutra	raphic Relief (D4)	
	. ,							▼ FAC-neutra	i Test (D3)	
Field Observa		Yes 〇		Dauth (inches	л.					
				Depth (inches	s):					
Water Table F	Present?	Yes 🖲	No \bigcirc	Depth (inches	s): 0		Wetla	nd Hydrology Presen	t? Yes 🖲 No 🔾	
Saturation Pre (includes capi		Yes 🖲	No \bigcirc	Depth (inches	5): 0					
Describe Recor	ded Data (strea	m gauge, m	onitor wel	l, aerial photos, previ	ious inspe	ection) if ava	ilable:			
Remarks:										