WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sar	mpling Date: 03-Aug-13
Applicant/Owner: Alaska Energy Authority		Sampling P	Point: SW13_T173_07
Investigator(s): BAB	Landform (hills	side, terrace, hummocks etc.): Fo	otslope
Local relief (concave, convex, none): rolling	Slope:	% / 9.7 ° Elevation: 104	
Subregion : Interior Alaska Mountains Lat.:	63.164623527	3 Long.: -148.253952924	Datum: NAD83
Soil Map Unit Name:		NWI classifica	tion: Upland
	ar? Yes for the second	 No (If no, explain in Rep Are "Normal Circumstances" pre (If needed, explain any answers) 	sent? Yes No
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point	locations, transects, importan	t features, etc.

Hydrophytic Vegetation Present?	Yes 🖲	Νο 〇		
Hydric Soil Present?	Yes \bigcirc	No 🖲	Is the Sampled Area	s 🔿 No 🖲
Wetland Hydrology Present?	$Yes \bigcirc$	No 🖲	within a Wetland? Yes	5 0 NO 6
Remarks:				

VEGETATION - Use scientific names of plants. List all species in the plot.

			Absolu	te Dominan	t Indicator	Dominance Test worksheet:		
Tre	e Stratum		% Cov			Number of Dominant Species		
1.) []		That are OBL, FACW, or FAC: <u>8</u> (A)		
2.						Total Number of Dominant Species Across All Strata: 8 (B)		
3.			<i>.</i>	\sim				
4.				$\frac{1}{2}$		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.				$\overline{)}$				
		Total Cover:	0			Prevalence Index worksheet: Total % Cover of: Multiply by:		
San	ling/Shrub Stratum 50	% of Total Cover:	0 2	 0% of Total Cov	ver: 0			
	5,		<u> </u>					
1.				5 🖌	FAC			
2.	Empetrum nigrum		1	0	FAC	FAC Species <u>58.1</u> x 3 = <u>174.3</u>		
3.	Arctous ruber		5	5 🖌	FAC	FACU Species x 4 =88		
4.	Vaccinium uliginosum		_8	3	FAC	UPL Species x 5 =		
5.	Salix pulchra		5	5 🗸	FACW	Column Totals: 130.1 (A) 362.3 (B)		
6.	Betula nana		5	5 🗸	FAC			
7.			0			Prevalence Index = B/A = <u>2.785</u>		
						Hydrophytic Vegetation Indicators:		
						✓ Dominance Test is > 50%		
10.						✓ Prevalence Index is \leq 3.0		
		Total Cover:	38			Morphological Adaptations ¹ (Provide supporting data in		
Herb Stratum 50% of Total		0% of Total Cover:	19 2	20% of Total Co	ver: 7.6	Remarks or on a separate sheet)		
1.	Angelica lucida		8	3	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Sanguisorba canadensis		3	5	FACW	¹ Indicators of hydric soil and wetland hydrology must		
3.	Artemisia norvegica		1		FACU	be present, unless disturbed or problematic.		
4.	Aconitum dolphiniifolium		-	3	FAC			
5.	Trischurg antischurg		0.	.1	FAC	Plot size (radius, or length x width) <u>10m</u>		
6.	Luquia pomifloro		2	2	FAC	% Cover of Wetland Bryophytes (Where applicable)		
7.	Calidaga multiradiata		c	3	FACU	% Bare Ground		
8.	Lupipuo orotiouo			5	FACU	Total Cover of Bryophytes 4		
9.	Dadaaathaan frigidum			0	FACW			
10.	Festuca altaica		2	0	FAC	Hydrophytic		
		Total Cover:	92.	1		Vegetation		
	50	% of Total Cover:4	Present? Yes • No					
Dom								

Remarks: sentri, carpod, sedros, sweper, polviv, pyrasa trace. corsue 1

Profile Description: (Describe to the depth needed to doo Matrix				onfirm the ab		dicators)				
Depth (inches)	Color (mo		%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-3		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	100					Fibric Organics		
3-8	10YR	3/2	100					Sand	thin organic layer at 6. semi rounded gravel	
8-11	7.5YR	3/3	100					Silt Loam	semi rounded gravel	
11-21	2.5Y	4/2	100					Sandy Loam	thin org layer at 11. semi rounded gravel	
¹ Type: C=Con	centration. D	=Depletion.	RM=Redu	uced Matrix ² Location		-		annel. M=Matrix		
Hydric Soil In	dicators:			Indicators for Pr		4	oils: ³	_		
Histosol or	. ,			Alaska Color Change (TA4)				Alaska Gleyed Without Hue 5Y or Redder Underlying Layer		
Histic Epipe				Alaska Alpine s			Г			
	Sulfide (A4)	_		Alaska Redox V	Nith 2.5Y	Hue		Other (Explain in Remark	5)	
	Surface (A12)		³ One indicator of	[;] hydrophy	tic vegetatic	on, one prir	mary indicator of wetland h	ydrology,	
Alaska Gley	. ,			and an appropriat	te landsca	pe position r	must be pr	esent		
Alaska Redox (A14) 4 Give details of color change in Remarks Alaska Gleyed Pores (A15) 4 Give details of color change in Remarks										
							I			
Restrictive Laye	r (if present):							Undria Cail Duasant	? Yes 🔿 No 🖲	
Type:		Hydric Soil Present? Yes ○ No ●				$rac{1}{2}$ Yes \bigcirc No $$				
Depth (inch	es).									
Remarks:	. Parta a									
no hydric soil ir	ndicators									
HYDROLO	-									
Wetland Hydr									cators (two or more are required)	
Primary Indicat		IS SUTTICIEFIC)	<u>.</u>				(07)		ned Leaves (B9)	
U Surface W	r Table (A1)			Inundation V		-			atterns (B10) hizospheres along Living Roots (C3)	
Saturation	. ,			Sparsely Veg		ncave Suria	се (во)		f Reduced Iron (C4)	
Water Mar	. ,			Marl Deposits	• •	(01)		Salt Depos	()	
	KS (B1) Deposits (B2)			Hydrogen Su					Stressed Plants (D1)	
Drift Depo				Other (Explai		. ,			c Position (D2)	
	or Crust (B4)					irks)			uitard (D3)	
									raphic Relief (D4)	
· ·	oil Cracks (B6)	1						FAC-neutra		
Field Observa	, ,									
Surface Water		$_{\sf Yes}$ \bigcirc	No 🖲) Depth (inche	es):					
Water Table P		Yes \bigcirc	No 🖲				Wetla	nd Hydrology Presen	t? Yes 🔿 No 🖲	
Saturation Pre (includes capil		$_{ m Yes}$ \bigcirc								

Remarks:

only one secondary hydrology indicator observed

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: