## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampl	ing Date: 01-Aug-13
Applicant/Owner: Alaska Energy Authority		Sampling Poin	t:
Investigator(s): BAB	Landform (hills	ide, terrace, hummocks etc.): Chan	nel (active)
Local relief (concave, convex, none): concave	Slope: 5.2	% / <u>3.0</u> ° Elevation: <u>1010</u>	
Subregion : Interior Alaska Mountains Lat.:	63.216213304	5 Long.: -148.28229066	Datum: WGS84
Soil Map Unit Name:		NWI classificatio	n: R2UBH
	ar? Yes ( atly disturbed? problematic?	No O (If no, explain in Rema Are "Normal Circumstances" preser (If needed, explain any answers in R	$ht$ ? Yes $\bullet$ No $\bigcirc$
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point l	ocations, transects, important fe	eatures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes () Yes () Yes ()	No () No () No ()	Is the Sampled Area within a Wetland?	Yes 🖲 No 🔿

Remarks: narrow [4 ft] channel running through abandoned, drained beaver pond. Banks are muddy with hipvul, arclat, ranhyp carex (coll) at previous plot, carbig. Total veg cover <30%.

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

	Abo	olute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum		Cover	Species?	Status	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					
		0			Prevalence Index worksheet: Total % Cover of: Multiply by:		
Sapling/Shrub Stratum 50% of Total Cover:			of Total Cover:	0	OBL Species $2 \times 1 = 2$		
1		0			FACW Species $0 \times 2 = 0$		
1.   2.		0			FAC Species $0 \times 3 = 0$		
2		0			FACU Species $0 \times 4 = 0$		
4.		0			UPL Species $0 \times 5 = 0$		
5.		0			Column Totals: <u>2</u> (A) <u>2</u> (B)		
6.		0					
7.		0			Prevalence Index = B/A = <u>1.000</u>		
8.		0			Hydrophytic Vegetation Indicators:		
9.		0			✓ Dominance Test is > 50%		
10.	-	0			✓ Prevalence Index is ≤3.0		
<b></b>				Morphological Adaptations <sup>1</sup> (Provide supporting data in			
_Herb Stratum50% of Total Cover:	0	20%	of Total Cover:	0	Remarks or on a separate sheet)		
1Hippuris vulgaris		2	$\checkmark$	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
2.		0			<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
3.		0			be present, unless disturbed or problematic.		
4		0			Plot size (radius, or length x width) 10m		
5		0			Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes		
6		0			(Where applicable)		
7		0			% Bare Ground 98		
8		0			Total Cover of Bryophytes		
9		0					
10	_	0			Hydrophytic		
Total Cove	r:	2			Vegetation		
50% of Total Cover:	1	20% (	of Total Cover:	0.4	Present? Yes $\bullet$ No $\bigcirc$		
Remarks:							

	(Describe to the depth Matrix	needed to docume		nfirm the abs <b>lox Featu</b>		cators)			
Depth — (inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc_2	Texture	Remarks	
					1700				
						-			
17		- DM Deduced	2		D(			. <u> </u>	
- Type: C=Concer	ntration. D=Depletio				-		Innel. M=Matrix		
Hydric Soil India	cators:	1	Indicators for Pr		4	oils:	1		
Histosol or His	. ,	Ĺ	Alaska Color Ch				Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epipedo	on (A2)	l	Alaska Alpine s	-	-		Underlying Layer		
Hydrogen Sulf	. ,	l	Alaska Redox V	√ith 2.5Y F	lue	<b>V</b>	Other (Explain in Remark	3)	
Thick Dark Su	. ,		<sup>3</sup> One indicator of	hvdrophyt	ric vegetatio	on, one prin	nary indicator of wetland h	vdrology.	
Alaska Gleyed			and an appropriat						
Alaska Redox	. ,		<sup>4</sup> Give details of co	olor chang	e in Remarl	ks			
Alaska Gleyed	Pores (A15)								
Restrictive Layer (if	f present):							$\sim$ $\sim$	
Туре:							Hydric Soil Present	? Yes $ullet$ No $igcap$	
Depth (inches)	:								
Remarks:									
assume hydric soil	due to flowing wate	r and channel n	orphology						
HYDROLOGY									
Wetland Hydrolo							_	cators (two or more are required)	
·	s (any one is sufficie	nt)						ned Leaves (B9)	
Surface Wate	. ,		✓ Inundation V		5	, , ,	✓ Drainage P		
High Water Ta			Sparsely Veg		Icave Surfa	ce (B8)		hizospheres along Living Roots (C3)	
Saturation (A	,		Marl Deposits	. ,				f Reduced Iron (C4)	
Water Marks			Hydrogen Su				Salt Depos		
Sediment Dep			Dry-Season V		• •		_	Stressed Plants (D1) ic Position (D2)	
Drift Deposits			Other (Explai	n in kema	rks)			uitard (D3)	
Iron Deposits								graphic Relief (D4)	
Surface Soil C	( )						FAC-neutra		
Field Observatio									
Surface Water Pre		● No ○	Depth (inche	s): 12					
Water Table Prese	,			,		Wotla	nd Hydrology Presen	t? Yes 🖲 No 🔾	
Saturation Presen			Depth (inche	s):		WClia	nu nyuruluyy riesen		
(includes capillary		🔾 No 🖲	Depth (inche	s):					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:									
				·					
Remarks:									