## WETLAND DETERMINATION DATA FORM - Alaska Region

	MINATION DA		- Alaska Regi	on		
Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanusk	a-Susitna Boroug	h Sampling	Date: 24	-Jun-12
Applicant/Owner: Alaska Energy Authority			Sa	mpling Point:	SW12_	_T07_02
Investigator(s): JGK	Landform (hil	lside, terrac	e, hummocks etc	.): Terrace		
Local relief (concave, convex, none): hummocky	Slope:	%/ 3.8	Elevation:	477		
Subregion : Interior Alaska Mountains	at.: 62.83096810	15	Long.: -148.25	9695705	Datum:	NAD83
Soil Map Unit Name:		NWI classification: Upland				
Are Vegetation , Soil , or Hydrology natura	cantly disturbed? Illy problematic?	(If nee	ormal Circumstar ded, explain any	answers in Rem	Ýes narks.)	No O
SUMMARY OF FINDINGS - Attach site map showing	sampling point	locations	s, transects, in	iportant leat	ures, etc.	
Hydrophytic Vegetation Present?   Yes ●   No ○     Hydric Soil Present?   Yes ○   No ●     Wetland Hydrology Present?   Yes ○   No ●     Remarks:		the Sam ithin a W	pled Area etland?	Yes 🔿 No (	•	
VEGETATION - Use scientific names of plants. List all Abso Tree Stratum	lute Dominant	plot. Indicator Status	Dominance Tes			
1. Picea glauca		FACU	That are OBL, FA		3	(A)
2	35 ✔ 0		Total Number of Species Across A		5	(B)
3	0		Percent of domin			
4	0		That Are OBL, FA	ACW, or FAC:	60.0%	) (A/B)
			Prevalence Inde Total % C	over of: M	lultiply by:	
Sapling/Shrub Stratum     50% of Total Cover:     17.5	20% of Total Cover		OBL Speci		x 1 =	0
1. Alnus incana	25 🗸	FAC	FACW Spe	ecies 0	x 2 =	0
2. Salix bebbiana						
	10	FAC	FAC Speci			225
2. Salix bebblaha 3	10 ✓   0 □   0 □	FAC	FAC Speci FACU Spe UPL Specie	cies 53		

3.				0			FACU Species $53 \times 4 = 212$				
4.				0			UPL Species x 5 =				
5.	P			0			Column Totals: <u>128</u> (A) <u>437</u> (B)				
6.				0							
7.				0			Prevalence Index = B/A = <u>3.414</u>				
8.				0			Hydrophytic Vegetation Indicators:				
9.				0			✓ Dominance Test is > 50%				
10.				0			Prevalence Index is $\leq 3.0$				
		Total Cover	:	35			Morphological Adaptations <sup>1</sup> (Provide supporting data in				
Her	b Stratum	50% of Total Cover:	17.5	20% of Total Cover		7	Remarks or on a separate sheet)				
1.	Cornus canadensis			15	$\checkmark$	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)				
2.	Equisetum arvense			35	$\checkmark$	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must				
3.	Calamagrostis canadensis			5		FAC	be present, unless disturbed or problematic.				
4.	Mertensia paniculata					FACU	Plot size (radius, or length x width) 10m				
5.				1		FACU					
6.				0			% Cover of Wetland Bryophytes (Where applicable)				
				0			% Bare Ground 0				
8.				0			Total Cover of Bryophytes 65				
9.				0							
				0			Hydrophytic				
		Total Cover		58			Vegetation				
		50% of Total Cover:	29	20% o	of Total Cover:	11.6	Present? Yes $\bullet$ No $\bigcirc$				
Rem	Remarks: trace chaang, arttil, alder & willow seedlings, poptri, pyrsec, plaobt										

Remarks: trace chaang, arttil, alder & willow seedlings, poptri, pyrsec, plaot lots of litter and woody debris

Profile Description:		the depth ne Matrix	eded to docu	ument the inc		firm the ab ox Featu		cators)			
Depth — (inches)	Depth -		<u>Color (moist)</u> <u>%</u> <u>Type<sup>1</sup></u>			Loc <sup>2</sup>	Texture	Remarks			
0-3		JISC)	<u> </u>		ioist)	-70	Туре	LUC	Fibric Organics	w high sand conntent and 30% roots	
3-4	2.5Y	4/2	100						Silt Loam	some organics and 3% roots	
4-6	,		100						Fibric Organics	w/ high silt conntent	
6-10	2.5Y	3/2	90	10YR	4/4	3	С	PL	Fine Loamy Sand	layers of organics and sand	
10-15	2.5Y	3/2	60	10YR	3/6	40	C	PL	Silt Loam	also reduction around root channels.	
		-/-								=	
			,					-			
<sup>1</sup> Type: C=Conce	entration D	=Depletion	RM=Redu	ced Matrix	<sup>2</sup> Location	· PI =Por	e Linina R(	=Root Cha	annel M=Matrix		
		Depiction					-				
Hydric Soil Ind					ors for Pro		4	oils:	7		
Histosol or H	. ,				ka Color Ch	• •	,		_ Alaska Gleyed Without Hue 5Y or Redder Underlying Layer		
Histic Epiped					ka Alpine sv ka Redox W	•	,	Г	Other (Explain in Remar	ks)	
Hydrogen Su	. ,				Ka Redux W	101 2.51 F	lue				
Thick Dark S		)		<sup>3</sup> One ii	ndicator of I	hydrophyt	ic vegetatio	on, one prir	mary indicator of wetland	hydrology,	
Alaska Gleye				and an	appropriate	e landscap	be position	must be pr	esent		
Alaska Redo	. ,	5)		<sup>4</sup> Give o	letails of co	lor chang	e in Remarl	s			
Restrictive Layer (	(if present):										
Type: ice	.), 15								Hydric Soil Present	t? Yes 🔾 No 🖲	
Depth (inches	5): 15										
Remarks:											
looks like there is	a history of	overbank	flooding.								
HYDROLOG	Y										
Wetland Hydrol	ogy Indica	ators:							Secondary Ind	icators (two or more are required)	
Primary Indicator	rs (any one	is sufficient	)						Water Sta	ined Leaves (B9)	
Surface Wat	In	undation Vi	sible on A	erial Image	ry (B7)		Patterns (B10)				
High Water Table (A2)			Sparsely Vegetated Concave Surface (B8)					Oxidized Rhizospheres along Living Roots (C3)			
Saturation (	,				arl Deposits	` '				of Reduced Iron (C4)	
Water Marks				Ну	drogen Suli	fide Odor	(C1)		Salt Depo		
Sediment De					y-Season W		• •		_	r Stressed Plants (D1)	
Drift Deposit	. ,			🗌 Ot	her (Explair	n in Rema	rks)			nic Position (D2)	
Algal Mat or									✓ Shallow A		
Iron Deposit	rs (B5)								Microtopo	graphic Relief (D4)	
Surface Soil	Cracks (B6)								FAC-neutr	al Test (D5)	
Field Observation		O									
Surface Water P	resent?	-	No 🖲	De	epth (inches	5):					
Water Table Pres		Yes $\bigcirc$	No 🖲	De	epth (inches	5):		Wetla	nd Hydrology Preser	nt? Yes 🔾 No 🖲	
Saturation Prese (includes capillar	ry fringe)		No 🖲		epth (inches	·					
Describe Recorde	d Data (stre	eam gauge,	monitor w	ell, aerial p	hotos, prev	ious inspe	ction) if av	ailable:			

Remarks: