## WETLAND DETERMINATION DATA FORM - Alaska Region

roject	/Site: Susitna-Watana Hydroele	ctric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date:	24-Jun-12		
pplica	nt/Owner: Alaska Energy Author	rity				Sampling Point: SW1	2_T07_02		
nvesti	gator(s): JGK	•	ı	Landform (hil	lside, terrac	e, hummocks etc.): Terrace			
ocal r	elief (concave, convex, none): h	iummocky		Slope: 0.0	% / 0.0	° Elevation: 501			
ubrea	ion: Interior Alaska Mountains	•	lat: 6	62.83096990	 85	Long.: -148.259719972 Datu	m: WGS84		
_	p Unit Name:			NWI classification: Upland					
	natic/hydrologic conditions on the s	site trained for this ti	ma af vaar	yor.	● No ○	(If no, explain in Remarks.)			
Are V Are V	egetation $\square$ , Soil $\square$ , or egetation $\square$ , Soil $\square$ , or	Hydrology	significantly naturally pro wing sam	disturbed?	Are "N (If nee	ormal Circumstances" present? Yes odded, explain any answers in Remarks.) s, transects, important features, etc.	No ○ :.		
	Hydrophytic Vegetation Present?	Yes O No 🤄	the Com	nlad Araa					
	Hydric Soil Present?	Yes O No 🤄	)	Is the Sampled Area within a Wetland? Yes ○ No ●					
	Wetland Hydrology Present?	Yes O No 🤄	)	within a Wetland? Yes ○ No ●					
Rem	arks:								
EGE	TATION - Use scientific nan	nes of plants. Li	st all spe	cies in the	plot.				
			Absolute	Dominant	Indicator	Dominance Test worksheet:			
	Stratum		% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 2	(A)		
	Picea glauca		35	<b>✓</b>	FACU	Total Number of Dominant			
2.			0				(B)		
3.						Percent of dominant Species			
4.						That Are OBL, FACW, or FAC: 40.0	)% (A/B)		
5.		T.1.16.				Prevalence Index worksheet:			
_	50%	Total Cover		-f T-t-1 C	_	Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50%	of Total Cover:	17.5 20%	of Total Cover	:7	OBL Species 0 x 1 =	0		
1.	Alnus incana ssp. tenuifolia		25	✓	UPL	FACW Species 0 x 2 =	0		
2.	Salix bebbiana		10	<b>✓</b>	FAC	FAC Species 50 x 3 =	150		
3.			0			FACU Species 53 x 4 =	212		
4.			0			UPL Species 25 x 5 =	125		
5.			0			Column Totals:128 (A)	487 (B)		
6.			0			Prevalence Index = B/A =3.8	OE.		
7.			0			1 revalence index = B/A =	05_		
8.			0			Hydrophytic Vegetation Indicators:			
			0			Dominance Test is > 50%			
10.						Prevalence Index is ≤3.0			
Her	b Stratum 50%	<b>Total Cover</b> % of Total Cover:		of Total Cove	r: <u>7</u>	Morphological Adaptations <sup>1</sup> (Provide supplements or on a separate sheet)	porting data in		
1.	Cornus canadensis		15	<b>✓</b>	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Exp	olain)		
2.	Equisetum arvense		35	<b>✓</b>	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrolog	y must		
3.	Calamagrostis canadensis		5		FAC	be present, unless disturbed or problematic.			
4.	Mertensia paniculata		1		FACU	Plot size (radius, or length x width)	Om		
5.	Rubus arcticus (IAM)				FACU		JIII		
						(Where applicable)			
						% Bare Ground <u>0</u>			
			_			Total Cover of Bryophytes 6	5		
9.									
10.						Hydrophytic			
		Total Cover	58			Vegetation			
	E00/	of Total Cover:	20 200/	of Total C		Present? Yes No •			

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SOIL Sampling Point: SW12\_T07\_02

										110mc. 5W12_107_02		
Profile Description		the depth n <b>Matrix</b>	eeded to docu	iment the inc		firm the ab ox Featu		ators)				
(inches)	Depth —		%	Color (m	noist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-3			70						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	С	PL	Silt Loam	also reduction around root channels.		
									-			
¹Type: C=Con	centration. D	=Depletion	. RM=Reduc	ced Matrix	<sup>2</sup> Location:	PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix			
Hydric Soil In	dicators:			Indicat	ors for Pro	blemati	c Hydric So	oils: <sup>3</sup>				
Histosol or	Histel (A1)			Alas	ka Color Cha	ange (TA	4)		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epipe	edon (A2)			Alas	ka Alpine sw	vales (TA	5)	_	Underlying Layer			
Hydrogen S	Sulfide (A4)			Alas	ka Redox W	ith 2.5Y I	Hue		Other (Explain in Remarl	(S)		
l —	Surface (A12	)		3 One i⊩	ndicator of h	ovdronhy	tic vegetatio	n one nrir	mary indicator of wetland h	pydrology		
Alaska Gley					appropriate					iyalology,		
Alaska Red	, ,	F)		4 Give o	details of col	lor chang	e in Remark	is .				
	ed Pores (A1											
Restrictive Laye	r (if present):											
Type: ice Depth (inch	oc): 15								Hydric Soil Present	? Yes○ No •		
, ,	es). 13											
Remarks:												
looks like there	is a history of	overbank	flooding.									
HYDROLO												
Wetland Hydr										cators (two or more are required)		
Primary Indicat		is sufficien	<u>t)</u>						Water Stained Leaves (B9)			
Surface Water (A1)					undation Vis		_		☐ Drainage Patterns (B10) ☐ Oxidized Rhizospheres along Living Roots (C3)			
					Sparsely Vegetated Concave Surface (B8) Marl Deposits (B15)							
Saturation (A3)									☐ Presence of Reduced Iron (C4) ☐ Salt Deposits (C5)			
	Water Marks (B1)     Hydrogen Sulfide Odor (C1)     Sediment Deposits (B2)     □ Deposits (B2)									Stressed Plants (D1)		
	<ul><li>☐ Sediment Deposits (B2)</li><li>☐ Dry-Season Water Table (C2)</li><li>☐ Other (Explain in Remarks)</li></ul>									ic Position (D2)		
	or Crust (B4)				ner (Explain	III IXCIIIG	ii koj		✓ Shallow Ad	` '		
☐ Iron Depos										graphic Relief (D4)		
Surface So	oil Cracks (B6)	)								al Test (D5)		
Field Observa	tions:											
Surface Water	Present?	Yes 🤇	) No ●	D€	epth (inches	):						
Water Table Pi	resent?	Yes 🤇	○ No ⊙	De	epth (inches	:):		Wetla	nd Hydrology Presen	t? Yes O No 💿		
Saturation Pres		Yes C	No ●	De	epth (inches	):						
		am gaugo	monitor w	oll porial n	hotos provi	ious insny	action) if ava	nilahla:				
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

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