## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	ct/Site: Susitna-Watana Hydroelectric	ka-Susitna Borough Sampling Date: 31-Jul-12						
Applic	ant/Owner: Alaska Energy Authority					Sampling Point: SW12_T40_03		
Invest	igator(s): CTS, EKJ	lside, terrac	ce, hummocks etc.): Mountainslope					
	relief (concave, convex, none): conve	x		Slope: 8.7	% / 5.0	O ° Elevation: 929		
	gion: Interior Alaska Mountains		lat: 6	· 2.71418990		Long.: -147.455699977 Datum: WGS84		
			Lat <u>0</u>	2.7 14 109900	<u> </u>			
	ap Unit Name:				<u> </u>	NWI classification: Upland		
	imatic/hydrologic conditions on the site ty Vegetation $\Box$ , Soil $\Box$ , or Hyd	. —	me of year? significantly			(If no, explain in Remarks.)  Normal Circumstances" present? Yes ● No ○		
	Vegetation , Soil , or Hydi		naturally pro			eded, explain any answers in Remarks.)		
	•				•			
SUM	MARY OF FINDINGS - Attach sit	e map show	wing sam	pling point	locations	s, transects, important features, etc.		
	Hydrophytic Vegetation Present? Ye	es 💿 No 🗆	)					
	Hydric Soil Present? Ye	es 💿 No C	)	Is the Sampled Area within a Wetland? Yes ○ No ●				
	Wetland Hydrology Present? Ye	es O No 💿	)					
Ren	marks: Fnwws w tall alder understory							
IXCI	marks. Fillwws w tall alder dilderstory							
VEG	<b>ETATION</b> -Use scientific names	of plants. Li	st all spec	cies in the	plot.			
			Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tre	ee Stratum		% Cover	Species?	Status	Number of Dominant Species		
1.	Picea glauca		10	<b>✓</b>	FACU	That are OBL, FACW, or FAC:4(A)		
2.			0		-	Total Number of Dominant Species Across All Strata: 5 (B)		
3.			0			Percent of dominant Species		
4.			0			That Are OBL, FACW, or FAC: 80.0% (A/B)		
5.			0			Prevalence Index worksheet:		
		Total Cover:	10			Total % Cover of: Multiply by:		
Sa	pling/Shrub Stratum 50% of To	otal Cover:	5 20% (	of Total Cover	:2	OBL Species 0.1 x 1 = 0.1		
1.	Alnus viridis ssp. crispa		5		FAC	FACW Species 35 x 2 = 70		
2.			15	<b>✓</b>	FACW	FAC Species ####, x 3 = 217.2		
3.	· · · · · · · · · · · · · · · · · · ·		4		FACU	FACU Species 14.3 x 4 = 57.20		
4.	Spiraea stevenii		0.1		FACU	UPL Species0 x 5 =0		
5.	Ledum groenlandicum		2		FAC	Column Totals: <u>121.8</u> (A) <u>344.5</u> (B)		
6.	Ribes triste		0.1		FAC			
7.	Linnaea borealis		0.1		FACU	Prevalence Index = B/A = 2.828		
8.			0			Hydrophytic Vegetation Indicators:		
9.			0			✓ Dominance Test is > 50%		
10.			0			✓ Prevalence Index is ≤3.0		
	F00/ of T	Total Cover:		of Total Cove	536	Morphological Adaptations <sup>1</sup> (Provide supporting data in		
		otal Cover:1				Remarks or on a separate sheet)		
1.	<u> </u>		30	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation (Explain)		
2.	Equisetum sylvaticum		30	<b>✓</b>	FACIA	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
3.	Petasites frigidus			<b>✓</b>	FACW	be present, unless disturbed of problematic.		
4.	Doe meercooks		- 1		FAC FAC	Plot size (radius, or length x width)		
5.	Poa macrocalyx  Luzula parviflora		0.1		FAC FAC	% Cover of Wetland Bryophytes5		
6.			0.1		FAC	(Where applicable)		
7. 8.	Chamerion angustifolium		0.1		FACU	% Bare Ground 0		
9.	Valeriana capitata		0.1		FAC	Total Cover of Bryophytes		
10.			0.1		OBL	Hydrophytic		
10.		Total Cover:		_		Hydrophytic Vegetation		
1						Present? Yes   No		
	50% of To	tal Cover:4	<u>2.75                                    </u>	of Total Cover	: <u>17.1</u>	Present? Tes © NO C		

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SOIL Sampling Point: SW12\_T40\_03

Profile Descripti	ion: (Describe to t		eeded to docu	ment the inc				ators)				
Depth Matrix (inches) Color (moist)				- 1 /		ox Featu		. 2		Remarks		
	Color (moi	ist)	<u>%</u> _	Color (m	ioist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Fibric Organics			
0-2			100						-	20% roots		
2-5						-			Hemic Organics	20% roots		
5-8	10YR	3/2	100						Silt Loam	7% roots		
8-10	10YR	2/2	90						Loam	rounded gravel to semi rounded cobbles		
10-17	5Y	5/2	90	10YR	4/4	10	С	PL	Sandy Loam	coarse sand to rounded gravel		
¹Type: C=Cor	ncentration. D=	Depletion	. RM=Reduc	ed Matrix	<sup>2</sup> Location:	PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix			
Hydric Soil I	ndicators:			Indicat	ors for Pro	blemati	c Hydric So	oils: <sup>3</sup>				
	r Histel (A1)				ka Color Cha		4		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	` ,			Alasl	ka Alpine sw	ales (TA	5)		Underlying Layer			
	Sulfide (A4)			Alasl	ka Redox W	ith 2.5Y H	Hue		Other (Explain in Remark	(S)		
☐ Thick Dark	s Surface (A12)			_								
Alaska Gle	eyed (A13)						tic vegetatio se position r		mary indicator of wetland hesent	nydrology,		
✓ Alaska Red	dox (A14)						•	•	CSCITC			
Alaska Gle	eyed Pores (A15	5)		4 Give o	letails of col	or chang	e in Remark	S				
Restrictive Laye	er (if present):											
Type: silt I	,								Hydric Soil Present	? Yes ● No ○		
Depth (inch									,			
Remarks:												
<b>HYDROLO</b>	GY											
Wetland Hyd	rology Indica	tors:							Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one is	s sufficien	t)						Water Stained Leaves (B9)			
Surface W	Vater (A1)			In:	undation Vis	ible on A	erial Image	y (B7)	7) Drainage Patterns (B10)			
High Wate	er Table (A2)			☐ Sp	arsely Vege	tated Cor	ncave Surfac	e (B8)	Oxidized Rhizospheres along Living Roots (C3)			
Saturation	n (A3)				ırl Deposits	. ,			Presence o	of Reduced Iron (C4)		
Water Ma				□ Ну	drogen Sulf	ide Odor	(C1)		Salt Depos	its (C5)		
	Deposits (B2)			Dr	y-Season W	ater Tabl	e (C2)		Stunted or	Stressed Plants (D1)		
Drift Depo	osits (B3)			☐ Ot	her (Explain	in Rema	rks)		Geomorph	ic Position (D2)		
Algal Mat or Crust (B4)									quitard (D3)			
☐ Iron Depo	osits (B5)								_	graphic Relief (D4)		
Surface S	oil Cracks (B6)							1	✓ FAC-neutra	al Test (D5)		
Field Observa												
Surface Water	r Present?		No 💿	De	epth (inches	):						
Water Table P	Present?	Yes 🤇	No •	De	pth (inches	):		Wetla	nd Hydrology Presen	t? Yes O No 💿		
Saturation Pre (includes capi		Yes 🤄	No O	De	epth (inches	): 4						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												
Kemarks.												

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