## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hyd	Iroelectric Project	Е	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 04-Aug-13							
Applica	Applicant/Owner: Alaska Energy Authority Sampling Point: SW13_T119_10												
nvestigator(s): BAB Landform (hillside, terrace, hummocks etc.): stream bank													
-	Local relief (concave, convex, none): rolling Slope: 5.2 % / 3.0 ° Elevation: 779												
	ion: Interior Alaska Mounta		L at :	62.829687371									
		ins	Lal	62.829687371	9								
	oil Map Unit Name: NWI classification: Upland												
	natic/hydrologic conditions on	· —	•		● No ○	(If no, explain in Remarks.)							
	The regulation of the result of the results of the												
Are V	egetation  , Soil	, or Hydrology	naturally pi	roblematic?	(If nee	ded, explain any answers in Remarks.)							
SUMN	MARY OF FINDINGS - A	Attach site map sho	wing san	npling point	locations	, transects, important features, etc.							
	Hydrophytic Vegetation Prese					<u>, , , , , , , , , , , , , , , , , , , </u>							
		Yes O No G		Is	the Sam	pled Area							
	Hydric Soil Present?			wi	thin a W	/etland? Yes ○ No ⊙							
	Wetland Hydrology Present? Yes O No   Within a Wetland?												
Remarks: area appears to have flooded recently [last year]. also appears to have been an active channel. active channel 30 meters distance.													
/FGF	TATION - Use scientific	names of plants. Li	ct all cad	ocios in the	nlot								
VLGL	TATION -03e scientinic	names of plants. L	st all spe	ecies iii tiie	piot.								
	_		Absolute		Indicator	Dominance Test worksheet:  Number of Dominant Species							
	Stratum Diagonal Color		% Cover		Status	That are OBL, FACW, or FAC:9(A)							
	Picea glauca				FACU	Total Number of Dominant							
2.						Species Across All Strata:(B)							
3. 4.						Percent of dominant Species That Are OBL, FACW, or FAC: 81.8% (A/B)							
5.						111at Ale Obl., FACW, 01 FAC. 81.8% (A/b)							
5.		Total Cover				Prevalence Index worksheet:							
C	line (Church Churchum	50% of Total Cover:	Total % Cover of: Multiply by:										
Sapi	ling/Shrub Stratum	30% of Total Cover.	5 20%	of Total Cover:	2	OBL Species 0 x 1 = 0							
1.	Populus balsamifera		8		FACU	FACW Species 12.3 x 2 = 24.60							
2.	Dasiphora fruticosa		10	<b>✓</b>	FAC	FAC Species <u>51</u> x 3 = <u>153</u>							
3.	Shepherdia canadensis		3		FACU	FACU Species <u>27.1</u> x 4 = <u>108.4</u>							
4.	Picea glauca		5		FACU	UPL Species <u>0</u> x 5 = <u>0</u>							
5.	Salix alaxensis				FAC	Column Totals: <u>90.4</u> (A) <u>286.0</u> (B)							
	Salix pulchra		10	<b>V</b>	FACW	Prevalence Index = B/A =3.164_							
	Salix monticola		10	<b>V</b>	FAC	51201							
	Vaccinium uliginosum		10	<b>✓</b>	FAC	Hydrophytic Vegetation Indicators:							
9.	Salix pseudomonticola				FAC	✓ Dominance Test is > 50%							
10.	Empetrum nigrum	T.1.10	5		FAC	Prevalence Index is ≤3.0							
Harl	b Stratum_	<b>Total Cover</b> 50% of Total Cover:		6 of Total Cover	: 14.6	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)							
-			2	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)							
1.	Sedum rosea Hedysarum alpinum		1	<b>✓</b>	FACU								
2.	Chamerion angustifolium		0.1		FACU	Indicators of hydric soil and wetland hydrology must     be present, unless disturbed or problematic.							
3. 4.	Swertia perennis		0.1	П	FACW								
5.	Parnassia palustris		0.1		FACW	Plot size (radius, or length x width) 10m							
6.	Sanguisorba canadensis		1	<b>✓</b>	FACW	% Cover of Wetland Bryophytes							
7.	Carex media		0.1		FACW	(Where applicable)							
8.	Equisetum arvense		1	<b>✓</b>	FAC	% Bare Ground         40           Total Cover of Bryophytes         10							
9.	Dodecatheon frigidum		1	<b>✓</b>	FACW	Total Cover of Bryophytes							
10.	Calamagrostis canadensis		1	<b>✓</b>	FAC	Hydronhytic							
10.		Total Cover		Hydrophytic Vegetation									
		50% of Total Cover:		of Total Cover:	1.48	Present? Yes • No O							
Darr	arker	/ ladona and	10/	10/									
Kein	arks: cornus canadensis 2%	6, ledum groenlandicum	170, Detula	a IIdIId 1%									

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SOIL Sampling Point: SW13 T119 10

Profile Descript	ion: (Describe to t	he depth ne	eded to docu	ment the inc				ators)				
Depth (inches)		latrix				ox Featu		. 2	- Taustuma	Damanka		
(inches)	Color (moi	st)	<u>%</u> _	Color (m	noist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-3			80						Fibric Organics	w interbedded silts.		
3-5	2.5Y	3/4	90	10YR	4/4	10	C	PL	Sandy Loam			
5-17	2.5Y	4/3	100						Sand	semi rounded gravel and cobbles		
						-		-	-			
						-		-	-	. ———		
1					2							
*Type: C=Cor	ncentration. D=	Depletion.	RM=Redu				_		annel. M=Matrix			
Hydric Soil I	ndicators:				ors for Pro		4	oils:´	7			
Histosol or	r Histel (A1)				ka Color Ch		-		Alaska Gleyed Without H Underlying Layer	ue 5Y or Redder		
Histic Epip	edon (A2)				ka Alpine sv				, , ,			
	Sulfide (A4)			☐ Alas	ka Redox W	ith 2.5Y F	lue		Other (Explain in Remark	(3)		
	Surface (A12)			3 One ii	ndicator of I	ovdronhyt	ic vegetatio	n one nrir	mary indicator of wetland h	nydrology		
Alaska Gle					appropriate					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Alaska Red	. ,			4 Give	details of co	lor change	e in Remark	s				
☐ Alaska Gle	yed Pores (A15	)		0.10								
Restrictive Laye	er (if present):											
Type:									<b>Hydric Soil Present</b>	? Yes ○ No •		
Depth (inches):												
Remarks:												
no hydric soil ir	ndicators observ	ed .										
, , , , , , , ,												
HADBOLO	CV											
HYDROLO									Cd Td:	(		
_	rology Indicat tors (any one is		•)							cators (two or more are required) ned Leaves (B9)		
Surface W		Sumcem	.)		undation Vie	aible on A	orial Imagas	n, (D7)		` '		
	er Table (A2)				undation Vis		_					
Saturation					arsely Vege		icave Surrac	ce (B8)		of Reduced Iron (C4)		
Water Ma					arl Deposits	` '	(C1)		Salt Depos	` ,		
	Deposits (B2)				drogen Sulf					Stressed Plants (D1)		
Drift Depo	' ' '				y-Season W					ic Position (D2)		
. –	or Crust (B4)				her (Explair	ı ın kema	rks)			quitard (D3)		
Iron Depo										graphic Relief (D4)		
`	oil Cracks (B6)								✓ FAC-neutra			
Field Observa									▼ TAC fleutre	ii rest (D3)		
Surface Water		Yes C	No •	De	epth (inches	٠.						
			No •			•		347-41-		V O N- O		
Water Table F				De	epth (inches	5):		wetia	nd Hydrology Presen	t? Yes ○ No •		
Saturation Pre (includes capi		Yes O	No 💿	De	epth (inches	s):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

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