## WETLAND DETERMINATION DATA FORM - Alaska Region

•	/Site: Susitna-Watana Hydroelectric Project		_ Bo	rough/City:	Matanusk	xa-Susitna Borough Sampling Date: 23-Jun-12			
	ant/Owner: Alaska Energy Authority				-:	Sampling Point: SW12_T19_05			
•	gator(s): JGK			Landform (hillside, terrace, hummocks etc.): Floodplain  Slope: 8.7 % / 5.0 ° Elevation: 843					
_ocal r	elief (concave, convex, none):concave				_	O ° Elevation: 843			
Subreg	ion : Southcentral Alaska	Lat	∴ _6	2.784659909	)	Long.: <u>-149.530519966</u> Datum: WGS84			
Soil Ma	p Unit Name:					NWI classification: Upland			
Are V Are V	natic/hydrologic conditions on the site typical for this regetation , Soil , or Hydrology regetation , Soil , or Hydrology	significa naturall	antly o	disturbed? blematic?	Are "N (If nee	lormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.)			
	Hydric Soil Present? Yes ○ No	o ○ o ○ o ○ o ○ o ○ o ○ o ○ uggest site	e is a	wi	the Sam thin a W	ipled Area /etland? Yes ○ No ●			
EGE	ETATION - Use scientific names of plants					Dominance Test worksheet:			
Tre	e Stratum	Absolu % Co		Dominant Species?	Indicator Status	Number of Dominant Species			
1.			0			That are OBL, FACW, or FAC: 2 (A)			
2.			0			Total Number of Dominant Species Across All Strata: 3 (B)			
3.			0			Percent of dominant Species			
4.			0			That Are OBL, FACW, or FAC: 66.7% (A/B)			
5.			0			Prevalence Index worksheet:			
	Total Co	ver:				Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	0	OBL Species 0 x 1 = 0						
1	Salix pulchra		70	<b>✓</b>	FACW	FACW Species 70 x 2 = 140			
2.	Osim parenta		0			FAC Species 75 x 3 = 225			
3.			0			FACU Species 26 x 4 = 104			
4.			0			UPL Species0 x 5 =0			
5.			0			Column Totals: <u>171</u> (A) <u>469</u> (B)			
6.			0						
7.			0			Prevalence Index = B/A = 2.743			
8.			0			Hydrophytic Vegetation Indicators:			
9.			0			✓ Dominance Test is > 50%			
10.			0			✓ Prevalence Index is ≤3.0			
<u>Her</u>	<b>Total Co b Stratum</b> 50% of Total Cover:		of Total Cover	:14	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)				
1.	Heracleum maximum		25	<b>~</b>	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
2.	Equisetum arvense		70	<b>\</b>	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
3.	Maianthemum racemosum ssp. racemosum		5		FAC	be present, unless disturbed or problematic.			
4.	Dryopteris expansa		1		FACU	Plot size (radius, or length x width)			
5.	Chamerion angustifolium		0.1		FACU	% Cover of Wetland Bryophytes 0			
6.	Calamagrostis canadensis		0.1		FAC	(Where applicable)			
7. o	Rubus arcticus		0.1		FAC	% Bare Ground			
8.			0			Total Cover of Bryophytes10			
			0			Hadanakaria			
10.	Total Co					Hydrophytic Vegetation			
1	50% of Total Cover:					Present? Yes • No •			

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SOIL Sampling Point: SW12\_T19\_05

Profile Descripti	ion: (Describe to	the depth ne	eded to docum	ent the inc	licator or con	firm the ab	sence of indic	rators)		110mil. 54412_115_65		
Depth		Matrix				ox Featu			_			
(inches)	Color (mo	oist)	%	Color (m	oist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-2			100						Hemic Organics	20%roots		
2-3			100						Sapric Organics	oxidation at bottom of layer		
3-16	10YR	4/2	75	7.5YR	3/4	10	С	PL	Sandy Loam	conc. of organics and sand throughout matri		
								-				
-								-	-			
Type: C=Cor	ncentration. D	=Depletion.	RM=Reduce	d Matrix	2 Location	PL=Pore	– ——— e Linina. RO	=Root Cha	annel. M=Matrix			
					ors for Pro							
Hydric Soil I					ka Color Ch		4	olis:	Alaska Claved Without H	us FV or Poddor		
	r Histel (A1) bedon (A2)				ka Color Cri ka Alpine sv		-	Alaska Gleyed Without Hue 5Y or Redder     Underlying Layer				
	Sulfide (A4)			Alaska Redox With 2.5Y Hue					Other (Explain in Remarks)			
l — '	Surface (A12	)										
Alaska Gle	-	,			ndicator of lappropriate				mary indicator of wetland h	nydrology,		
Alaska Red	dox (A14)						•	•	esent			
Alaska Gle	eyed Pores (A1	5)		4 Give o	letails of co	lor change	e in Remark	(S				
Restrictive Laye	er (if present):											
Type:									<b>Hydric Soil Present</b>	? Yes ○ No •		
Depth (inch	nes):											
Remarks:												
HYDROLO	GY											
Wetland Hyd		ators:							_Secondary Indi	cators (two or more are required)		
Primary Indica			)							ned Leaves (B9)		
✓ Surface W	Vater (A1)			In	undation Vis	sible on A	erial Image	ry (B7)	(B7) Drainage Patterns (B10)			
High Wate	er Table (A2)			☐ Sp	arsely Vege	tated Cor	ncave Surfa	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)		
Saturation	n (A3)			☐ Ma	arl Deposits	(B15)			Presence of	of Reduced Iron (C4)		
Water Ma	rks (B1)			□ Ну	drogen Sulf	fide Odor	(C1)		Salt Depos	its (C5)		
Sediment	Deposits (B2)			Dr	y-Season W	ater Tabl	e (C2)		Stunted or	Stressed Plants (D1)		
Drift Depo	osits (B3)			☐ Ot	her (Explair	in Rema	rks)		Geomorph	ic Position (D2)		
l — -	or Crust (B4)								Shallow Ac	quitard (D3)		
Iron Depo	osits (B5)								Microtopog	graphic Relief (D4)		
Surface S	oil Cracks (B6)	)							☐ FAC-neutra	al Test (D5)		
Field Observa		v										
Surface Water	r Present?		No O	De	epth (inches	s): 0						
Water Table F	Present?	Yes C	No 💿	De	epth (inches	s):		Wetla	nd Hydrology Presen	t? Yes 💿 No 🔾		
Saturation Pre (includes capi		Yes $\bigcirc$	No 💿	De	epth (inches	s):						
Describe Recor	ded Data (stre	am gauge,	monitor well	, aerial p	hotos, previ	ious inspe	ection) if ava	ailable:				
	`											
Remarks:												

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