WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Bo	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 05-Jul-13			
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T136_05			
nvestigator(s): SLI, SCB	ı	Landform (hil	lside, terrac	e, hummocks etc.): Hillside			
ocal relief (concave, convex, none): hummocky		Slope: 0.0	% / 0.0	° Elevation: 540			
ubregion : Southcentral Alaska	lat:	62.94600165	 13	Sampling Point: SW13_T136_05 e, hummocks etc.): Hillside ° Elevation: 540 Long.: -149.143487686 Datum: WGS84 NWI classification: PSS1E (If no, explain in Remarks.) ormal Circumstances" present? Yes No Oded, explain any answers in Remarks.) t, transects, important features, etc.			
oil Map Unit Name:		32.04000100	10				
re climatic/hydrologic conditions on the site typical fo		. Voo	● No ○				
Are Vegetation , Soil , or Hydrology Are Vegetation , Soil , or Hydrology UMMARY OF FINDINGS - Attach site ma	significantly naturally pro showing sam	disturbed?	Are "N (If nee	lormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)			
Hydrophytic Vegetation Present? Yes	No O	la.	the Com	mlad Area			
Hydric Soil Present? Yes ●	No O	Is the Sampled Area					
Wetland Hydrology Present? Yes ●	No O	within a Wetland? Yes ● No ○					
Remarks: willow drainage w standing/flowing water	ar						
EGETATION -Use scientific names of pla	nts. List all spe	cies in the	plot.	Denis and Tark and Jakoba			
T 61	Absolute % Cover	Dominant Species 2	Indicator				
Tree Stratum 1.	<u>% Cover</u>	Species?	Status				
2							
2	0						
4							
5.							
	Cover:						
Sapling/Shrub Stratum 50% of Total Cov		of Total Cover	: 0	001.0			
1. Salix alaxensis		✓	FAC				
2. Salix barclayi	_	✓	FAC				
3.	_			UPL Species $0 \times 5 = 0$			
4 5.							
_				Column Totals: <u>111.4</u> (A) <u>333.1</u> (B)			
	— <u> </u>			Prevalence Index = B/A =			
7				Hydrophytic Vegetation Indicators:			
9.				✓ Dominance Test is > 50%			
10.				✓ Prevalence Index is ≤3.0			
	l Cover: 80 ver: 40 20%	of Total Cove	r: <u>16</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
Calamagrostis canadensis		✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2. Equisetum arvense	20	✓	FAC	¹ Indicators of hydric soil and wetland hydrology must			
3. Sanguisorba officinalis	1		FACW	be present, unless disturbed or problematic.			
4. Thalictrum alpinum			FAC	Plot size (radius, or length x width) 10m			
5. Viola epipsila			FACW	% Cover of Wetland Bryophytes			
6. Carex canescens	0.1		FACW	(Where applicable)			
7. Streptopus amplexifolius			FACU	% Bare Ground			
8.				Total Cover of Bryophytes			
9	•						
10				Hydrophytic Vegetation			
				VACIATATION			
Tota	Cover: <u>31.4</u> er: <u>15.7</u> 20%	of Total Cover	: 6.28	Present? Yes • No •			

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SOIL Sampling Point: SW13_T136_05

<u> </u>									F 3	110mm: 51115_1150_05	
	ion: (Describe to	the depth nee Matrix	ded to documer	nt the indic		irm the abs		ators)			
Depth (inches)	Color (mo		<u></u> %	Color (mo		%	Type ¹	_Loc_2	Texture	Remarks	
0-4									Sapric Organics		
4-5									Coarse Sand		
5-11						-			Sapric Organics	w wood debris	
11-16	5Y	2.5/1	85 1	.0YR	4/6	10		PL	Sandy Loam	5% 10YR3/6 C PL, ox rhiz on living ro	nts
				-	.,,					5 70 10 THS/O CT E, OX THE OIT HVING TO	
											—
										-	
¹Type: C=Cor	ncentration. D=	Depletion.					_		nnel. M=Matrix		
Hydric Soil I	ndicators:		I				Hydric So	oils: ³			
Histosol or	L	Alaska Color Change (TA4)					Alaska Gleyed Without Hue 5Y or Redder				
✓ Histic Epip	pedon (A2)		L	_	Alpine sw	•	•		Underlying Layer	,	
	Sulfide (A4)		L	Alaska	Redox Wi	ith 2.5Y H	lue		Other (Explain in Remark	(S)	
	k Surface (A12)	1	3	3 One ind	icator of h	vdronhvt	ic vegetatio	n one nrim	nary indicator of wetland h	nydrology	
Alaska Gle							e position r			iyarology,	
✓ Alaska Red	. ,	-\		4 Give de	tails of col	or change	e in Remark	:S			
Alaska Gle	eyed Pores (A15	o)									
Restrictive Laye	er (if present):										
Type:	3								Hydric Soil Present	? Yes ● No O	
Depth (inch	nes):										
Remarks:											
h2s in upper 12	2in.										
HYDROLO	GY										
Wetland Hyd	rology Indica	tors:							Secondary Indi	cators (two or more are required)	
Primary Indica	ntors (any one i	s sufficient)							Water Stair	ned Leaves (B9)	
✓ Surface W	Vater (A1)			Inun	dation Vis	ible on A	erial Image	ry (B7)	Drainage P	Patterns (B10)	
High Wate	er Table (A2)			Spar	sely Veget	tated Con	cave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C	3)
✓ Saturation	n (A3)			Marl	Deposits	(B15)			Presence o	of Reduced Iron (C4)	
Water Ma	ırks (B1)			✓ Hydr	rogen Sulf	ide Odor	(C1)		Salt Depos	sits (C5)	
Sediment	Deposits (B2)			Dry-	Season W	ater Table	e (C2)		Stunted or	Stressed Plants (D1)	
Drift Depo	osits (B3)			Othe	er (Explain	in Remai	rks)		Geomorphi	ic Position (D2)	
Algal Mat	or Crust (B4)									quitard (D3)	
Iron Depo	` ,								☐ Microtopog	graphic Relief (D4)	
	oil Cracks (B6)							1	☐ FAC-neutra	al Test (D5)	
Field Observa											
Surface Water	r Present?	Yes •		Dep	th (inches): 4					
Water Table P	Present?	Yes 💿	No \bigcirc	Dep	th (inches): 3		Wetlar	nd Hydrology Presen	t? Yes • No O	
Saturation Pre (includes capi		Yes	No \bigcirc	Dep	th (inches): 2					
Describe Recor		am nauna r	nonitor well	aerial nho	ntos previe	oue inche	ction) if ava	ailahle:			
Describe Recor	ueu Data (sire	aiii gauge, i	nonitor weil, a	acııaı piic	otos, previ	ous mspe	cuon) ii ave	illable.			
Remarks:											
	ded salix comm	nunity, pools	of open wate	er, esp in	large gam	ne trail thi	rough cente	er of site. h	2s in upper 12in, audible f	lowing water, but don't see well-	
		nunity. pools	of open wate	er, esp in	large gam	ne trail th	rough cente	er of site. h	2s in upper 12in. audible f	lowing water, but don't see well-	
seasonally floor		nunity. pools	of open wate	er, esp in	large gam	ne trail thi	rough cente	er of site. h	2s in upper 12in. audible f	lowing water, but don't see well-	

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