WETLAND DETERMINATION DATA FORM - Alaska Region

	/Site: Susitna-Watana Hydroelectric Project	Borou	gh/City:	Matanusk	a-Susitna Borough Sampling Date: 09-Jul-13			
Applica	nnt/Owner: Alaska Energy Authority				Sampling Point: SW13_T107_05			
Investi	gator(s): SLI, SCB	e, hummocks etc.): Swale						
Local r	elief (concave, convex, none): flat	% / 1.1	° Elevation: 741					
Subrec	ion : Interior Alaska Mountains	 Lat.: 62.86	 32111026		Long.: -148.117061496 Datum: WGS84			
-		22.00	02111920	<u> </u>				
	p Unit Name:			● No ○	NWI classification: PEM1F			
	natic/hydrologic conditions on the site typical for this	•			(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○			
	egetation , Soil , or Hydrology	significantly dist			omar or cametanoco procont.			
Are v	egetation . Soil . , or Hydrology .	naturally probler	natic?	(If nee	ded, explain any answers in Remarks.)			
SUMI	MARY OF FINDINGS - Attach site map sho		g point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes No		lo	the Com	nlad Araa			
	Hydric Soil Present? Yes ● No (pled Area etland? Yes ◉ No ◯			
	Wetland Hydrology Present? Yes No	\supset	within a Wetland? Yes ● No ○					
Rem	arks: time=1240, photo #s1497-99. PEM1H? carex-	dominated draina	ageway w	v standing v	vater. water flowing, but no channel morphology (bed			
	and bank). southern aspect picgla bank is non							
\	TATION			1				
VEGE	ETATION -Use scientific names of plants. I	list all species	in the	plot.				
				Indicator	Dominance Test worksheet:			
	e Stratum		ecies?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)			
	Picea mariana		V	FACW	Total Number of Dominant			
2.					Species Across All Strata:5(B)			
3.					Percent of dominant Species			
4.					That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.					Prevalence Index worksheet:			
	Total Cove				Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	0.5 20% of To	itai Cover	0.2	OBL Species <u>75.1</u> x 1 = <u>75.1</u>			
1.	Betula nana	5	✓	FAC	FACW Species 4 x 2 = 8			
2.	Dasiphora fruticosa	5	✓	FAC	FAC Species <u>12</u> x 3 = <u>36</u>			
3.	Salix pulchra	3	✓	FACW	FACU Species 0 x 4 = 0			
4.	Picea mariana			FACW	UPL Species <u>0</u> x 5 = <u>0</u>			
5.					Column Totals: 91.1 (A) 119.1 (B)			
6.					Prevalence Index = B/A =1.307_			
7.								
8.					Hydrophytic Vegetation Indicators:			
					✓ Dominance Test is > 50%			
10.					✓ Prevalence Index is ≤3.0			
Her	Total Cove b Stratum 50% of Total Cover: _		otal Cover	r: 2.62	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
-		50	✓	OBL				
	·	15		OBL				
	· ·	10		OBL	be present, unless disturbed or problematic.			
4.	Calamagrostis canadensis			FAC				
5.	Eriophorum angustifolium	0.1		OBL				
6.	Carex Ioliacea	0.1		OBL	(Where applicable)			
7.								
0.					<u>-</u>			
9.		0			Hydrophytic			
9.					Hydrophytic Vegetation Present? Yes No			
1. 2. 3. 4. 5. 6. 7.	Carex aquatilis Equisetum fluviatile Comarum palustre Calamagrostis canadensis Eriophorum angustifolium Carex Ioliacea	50 15 10 2 0.1 0.1 0		OBL OBL FAC OBL	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width)			

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Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)

Matrix

Redox Features

Profile Descripti Depth	ption: (Describe to the depth needed to document the indicator or confirm the absence of indicator Matrix Redox Features						ators)				
(inches)	Color (moi	st)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
					_						
									-		
									-		
¹Type: C=Cor	ncentration. D=	Depletion.	RM=Reduce	ed Matrix ² Location		_		nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pro	blemati	C Hydric So	oils: ³				
Histosol or	r Histel (A1)			Alaska Color Ch	ange (TA	4)		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	edon (A2)			Alaska Alpine sv	vales (TA	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			☐ Alaska Redox With 2.5Y Hue							
Thick Dark	Surface (A12)			3 One indicator of	h, duan h, d	ia vaaatatia		aami indicator of watland b	udvala a v		
Alaska Gle	eyed (A13)			and an appropriate				nary indicator of wetland h esent	ydrology,		
Alaska Red	. ,			⁴ Give details of co	lor chang	o in Domark					
	yed Pores (A15)		- Give details of co	ioi chang	e III Kelliai k	.5				
Restrictive Laye	er (if present):										
Type:	,							Hydric Soil Present	? Yes ● No O		
Depth (inch	nes):										
HYDROLO	GY										
Wetland Hydi	rology Indicat	ors:						_Secondary India	cators (two or more are required)		
Primary Indica	tors (any one is	sufficient)						Water Staii	ned Leaves (B9)		
✓ Surface W	/ater (A1)			Inundation Vi	sible on A	erial Imager	ry (B7)	☐ Drainage P	atterns (B10)		
	er Table (A2)			Sparsely Vege		ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)		
Saturation	` '			Marl Deposits	. ,				f Reduced Iron (C4)		
☐ Water Ma	` ,			☐ Hydrogen Sul		` '		☐ Salt Depos			
	Deposits (B2)			☐ Dry-Season W					Stressed Plants (D1)		
☐ Drift Depo	or Crust (B4)			Other (Explain	n in Rema	rks)		☐ Geomorphi	c Position (D2)		
✓ Iron Depo									raphic Relief (D4)		
	oil Cracks (B6)							✓ FAC-neutra			
Field Observa								I THE HEAD	1 (55)		
Surface Water		Yes	$_{No}$ \bigcirc	Depth (inches	s): 12						
Water Table P	Present?	Yes 〇	No 💿	Depth (inches	•		Wetlar	nd Hydrology Presen	t? Yes • No O		
Saturation Pre		Yes 〇	No •	Depth (inches	,			, .,			
(includes capil				I, aerial photos, prev		ection) if ava	nilahle:				
Describe Necon		gaage, I		., acriai pilotos, piev	.545 111500						
Remarks:											
standing water	throughout dra	inage.									

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