## WETLAND DETERMINATION DATA FORM - Alaska Region

/Site: Susitna-Watana Hydroelectric Project	B	orough/City:	Matanusk	xa-Susitna Borough Sampling Date: 07-Aug-12		
nt/Owner: Alaska Energy Authority				Sampling Point: SW12_T36_04		
	side, terrac	ce, hummocks etc.): Terrace				
elief (concave, convex, none): flat		Slope: 0.0	% / 0.0	° Elevation: 340		
ion : Southcentral Alaska	Lat.:			Long.: -149.646619965 Datum: WGS84		
	_			NWI classification: PEM1B		
	ime of year	2 Yes	● No ○			
				Iormal Circumstances" present? Yes  No		
				eded, explain any answers in Remarks.)		
		ipinig point	locations	s, transects, important reatures, etc.		
, , , ,	pled Area					
.,,		within a Wetland? Yes ● No ○				
Wetland Hydrology Present? Yes ♥ No C	<i>)</i>					
arks: calcan dominated wetland. yellow-green to the	e W is a car	utr dominated	PEM1C.			
TATION - Use scientific names of plants U	ist all sne	cies in the	nlot			
Ose scientific flames of plants. E	ist all spc			Dominance Test worksheet:		
Stratum	Absolute			Number of Dominant Species		
			Status	That are OBL, FACW, or FAC: (A)		
		П		Total Number of Dominant Species Across All Strata: 2 (B)		
				Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)		
	0			Prevalence Index worksheet:		
Total Cover	r: <u>0</u>			Total % Cover of: Multiply by:		
ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species6 x 1 =6		
	0			FACW Species 1 x 2 = 2		
				FAC Species 110 x 3 = 330		
				FACU Species0 x 4 =0		
	•			UPL Species <u>0</u> x 5 = <u>0</u>		
	0			Column Totals: <u>117</u> (A) <u>338</u> (B)		
	0					
	0			Prevalence Index = B/A =		
	0			Hydrophytic Vegetation Indicators:		
				✓ Dominance Test is > 50%		
				Prevalence Index is ≤3.0		
	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)					
Calamagrostis canadensis	80	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
	5		OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
<del>- '</del>			OBL	be present, unless disturbed or problematic.		
<del>- ' '</del>			FACW	Plot size (radius, or length x width)		
			FAC	% Cover of Wetland Bryophytes		
				(Where applicable)		
				% Bare Ground55		
				Total Cover of Bryophytes		
				Hydronbydia		
Total Cover				Hydrophytic Vegetation		
				Present? Yes • No O		
	ant/Owner: Alaska Energy Authority gator(s): SLI, KMK elief (concave, convex, none): flat gion: Southcentral Alaska up Unit Name: matic/hydrologic conditions on the site typical for this tegetation  , Soil  , or Hydrology   degetation  , Soil  , or Hydrology   degetation	ant/Owner: Alaska Energy Authority gator(s): SLI, KMK elief (concave, convex, none): flat plon: Southcentral Alaska	ant/Ower: Alaska Energy Authority gator(s): SLI, KMK   Landform (hill elief (concave, convex, none): flat   Slope: 0.0  ition: Southcentral Alaska   Lat: 62.77617990s  p Unit Name:  matic/hydrologic conditions on the site typical for this time of year?   Yes legetation   , Soil   , or Hydrology   significantly disturbed? legetation   , Soil   , or Hydrology   naturally problematic?  MARY OF FINDINGS - Attach site map showing sampling point Hydrophytic Vegetation Present?   Yes   No     No   Wi  Hydrophytic Vegetation Present?   Yes   No   No   Wi  arks: calcan dominated wetland. yellow-green to the W is a carutr dominated  ETATION - Use scientific names of plants. List all species in the  a stratum   Absolute   No   No   No    ETATION - Use scientific names of plants. List all species in the  a stratum   Absolute   No   No    Indig/Shrub Stratum   Solve of Total Cover:   0   20% of Total Cover:      O	Alaska Energy Authority pator(s): SLI, KMK elief (concave, convex, none): flat		

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SOIL Sampling Point: SW12\_T36\_04

	ion: (Describe to t	he depth ne <b>latrix</b>	eded to docum	ent the inc		firm the abs		ators)				
(inches)	Depth (inches) Color (moist)		%	Color (n	oist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-7						_			Hemic Organics	saturated at surface		
7-18	N	2.5/	95	5YR	4/6	5		PL	Clay Loam	undecomp organics (sedge bases, equisetu		
7 10				JIK						undecomp organics (sedge bases, equiseta		
										p		
¹Type: C=Cor	ncentration. D=	Depletion.							nnnel. M=Matrix			
Hydric Soil I	ndicators:			Indicat	ors for Pro	blematic	Hydric So	oils: <sup>3</sup>				
Histosol or	r Histel (A1)			Alas	ka Color Ch	ange (TA4	ł) <b>4</b>		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	edon (A2)			Alas	ka Alpine sv	vales (TA5	5)		Underlying Layer			
<b>✓</b> Hydrogen	Sulfide (A4)			Alas	ka Redox W	ith 2.5Y H	lue		Other (Explain in Remark	s)		
☐ Thick Dark	Surface (A12)			_								
Alaska Gle	eyed (A13)			<sup>3</sup> One in	ndicator of	hydrophyti	ic vegetation e position n	n, one prir	mary indicator of wetland h	ydrology,		
Alaska Red	dox (A14)						•	•	esent			
Alaska Gle	eyed Pores (A15	)		4 Give o	letails of co	lor change	in Remark	S				
Restrictive Laye	er (if present):											
Type: clay									Hydric Soil Present	? Yes ● No O		
Depth (inch	nes): 7											
HYDROLO	GY											
Wetland Hydi		tors:							Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one is	sufficient	)						Water Stained Leaves (B9)			
Surface W	/ater (A1)			☐ In	undation Vi	sible on Ae	erial Imager	y (B7)	☐ Drainage P	atterns (B10)		
☐ High Wate	☐ Surface Water (A1)       ☐ Inundation Visible on Aerial Imagery (B7)       ☐         ☐ High Water Table (A2)       ☐       Sparsely Vegetated Concave Surface (B8)							Oxidized R	hizospheres along Living Roots (C3)			
✓ Saturation	n (A3)			☐ Ma	arl Deposits	(B15)			Presence o	f Reduced Iron (C4)		
☐ Water Ma	rks (B1)			<b>✓</b> Hy	drogen Sul	fide Odor	(C1)		☐ Salt Depos	its (C5)		
Sediment	Deposits (B2)				y-Season W				☐ Stunted or	Stressed Plants (D1)		
☐ Drift Depo	osits (B3)			Ot	her (Explair	n in Remar	rks)		Geomorphi	ic Position (D2)		
Algal Mat	or Crust (B4)						-		✓ Shallow Aq	uitard (D3)		
☐ Iron Depo	osits (B5)								Microtopog	raphic Relief (D4)		
Surface So	oil Cracks (B6)								FAC-neutra	l Test (D5)		
Field Observa	ations:											
Surface Water	r Present?	Yes $\bigcirc$	No 💿	De	epth (inches	s):						
Water Table P	resent?	Yes 🔾	No 💿	De	epth (inches	s):		Wetla	nd Hydrology Presen	t? Yes • No O		
Saturation Pre		Yes •	No O		epth (inches	,						
(includes capi							ction) if ava	ilahle:				
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												
water perced a	top clay loam a	t 7in bgs										

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