WETLAND DETERMINATION DATA FORM - Alaska Region

	/Site: Susitna-Watana Hyd	•	B	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 07-Aug-13		
Applica	int/Owner: Alaska Energy A	Authority				Sampling Point: SW13_T196_08		
Investiç	gator(s): SLI, EAC			Landform (hillside, terrace, hummocks etc.): Valley bottom				
Local r	elief (concave, convex, none)): flat		Slope: 3.5 % / 2.0 ° Elevation: 757				
Subreg	ion : Interior Alaska Mounta	ins	Lat.:	63.309717417	,	Long.:148.190484405		
Soil Ma	p Unit Name:			NWI classification: PSS1B				
Are V	natic/hydrologic conditions or legetation , Soil egetation , Soil .	, or Hydrology , or Hydrology	significantly naturally pr	y disturbed? oblematic?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.) Iormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)		
	Hydrophytic Vegetation Prese Hydric Soil Present? Wetland Hydrology Present? arks: valley bottom, no chan	Yes No Yes No			the Sam thin a W	pled Area etland? Yes No		
VEGE	ETATION - Use scientific	names of plants. L	ist all spe	cies in the p	plot.			
			Absolute	Dominant	Indicator	Dominance Test worksheet:		
	e Stratum_		% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)		
1.						Total Number of Dominant		
2.			0			Species Across All Strata:5(B)		
3.						Percent of dominant Species		
4.						That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.		Total Cover	- <u>0</u> r: <u>0</u>			Prevalence Index worksheet: Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum	50% of Total Cover:	0	OBL Species <u>8.1</u> x 1 = <u>8.1</u>				
1.	Dasiphora fruticosa		50	✓	FAC	FACW Species <u>14.1</u> x 2 = <u>28.20</u>		
2.	Salix pulchra		10		FACW	FAC Species <u>83.1</u> x 3 = <u>249.3</u>		
3.	Salix reticulata		20	✓	FAC	FACU Species <u>0.1</u> x 4 = <u>0.400</u>		
4.	Andromeda polifolia (IAM)		0.1		OBL	UPL Species0 x 5 =0		
5.			0			Column Totals: <u>105.4</u> (A) <u>286</u> (B)		
6.			0			Prevalence Index = B/A = 2.713		
7.			0			Prevalence Index = B/A =		
8.						Hydrophytic Vegetation Indicators:		
9.						✓ Dominance Test is > 50%		
10.			- <u>0</u> r: <u>90.1</u>			✓ Prevalence Index is ≤3.0		
Her	b Stratum_	Total Cover 50% of Total Cover:	: 18.02	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)				
1.	Carex lachenalii			✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Carex membranacea			✓	FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
3.	Thalictrum alpinum		-		FAC	be present, unless disturbed of problematic.		
4.	Swertia perennis		0.1		FACU	Plot size (radius, or length x width)		
5.	Equisetum scirpoides Equisetum variegatum		0.1		FACU	% Cover of Wetland Bryophytes		
6. 7.	Sodum rosos		0.1		FAC	(Where applicable)		
8.	lungua contangua				FACW	% Bare Ground 20 Total Cover of Bryophytes 85		
_ O	Equisetum arvense		1		FAC	Total cover of bryophlytes 85		
9.			1		OBL			
	Carex aquatilis		1		ODL	Hydronhytic		
9.		Total Cover			ODE	Hydrophytic Vegetation Present? Yes No		

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SOIL Sampling Point: SW13_T196_08

		the depth n	eeded to docum	ent the indicator or co	nfirm the ab		ators)				
Depth (inches)	Color (mo	ist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-5	5YR	2.5/2	100			-75-		Sapric Organics			
5-13	10YR	3/1	100					Coarse Sand	30% cobble, 30% gravel		
					-				30% cobble, 30% gravei		
					-		-				
-					-			-			
¹Type: C=Cor	ncentration. D=	-Depletion	. RM=Reduce	d Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³				
Histosol or	r Histel (A1)			Alaska Color Cl	nange (TA	4 4)		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	. ,			Alaska Alpine swales (TA5)				Underlying Layer			
	Sulfide (A4)			Alaska Redox V	With 2.5Y H	lue	✓	Other (Explain in Remarks)			
	Surface (A12))									
Alaska Gle		•						nary indicator of wetland h	ydrology,		
Alaska Red				and an appropriat	te iandscap	be position r	nust be pre	esent			
	eyed Pores (A1	5)		⁴ Give details of co	olor chang	e in Remark	s				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present? Yes ● No ○			
Depth (inch	nes):										
and thus are w											
HYDROLO											
Wetland Hydi									cators (two or more are required)		
Primary Indica		is sufficien	t)					Water Stained Leaves (B9)			
Surface Water (A1)				Inundation V		_		☐ Drainage Patterns (B10)			
✓ High Water Table (A2)				Sparsely Veg	etated Cor	ncave Surfac	ce (B8)	Oxidized Rhizospheres along Living Roots (C3)			
✓ Saturation (A3)				Marl Deposits	s (B15)			Presence of Reduced Iron (C4)			
Water Marks (B1)				Hydrogen Su				☐ Salt Depos			
				☐ Dry-Season \					Stressed Plants (D1)		
Drift Deposits (B3) Other (Explain in Re					in in Rema	rks)			ic Position (D2)		
Algal Mat or Crust (B4)								_	uitard (D3)		
☐ Iron Deposits (B5)									graphic Relief (D4)		
	oil Cracks (B6)						1	✓ FAC-neutra	Il Test (D5)		
Field Observa		v (No ●								
Surface Water	r Present?			Depth (inche	es):						
Water Table P	Present?	Yes 🧐	No 🔾	Depth (inche	es): 11		Wetla	nd Hydrology Presen	t? Yes • No O		
Saturation Present? (includes capillary fringe) Yes • No •			Depth (inches): 9								
Describe Recor	ded Data (stre	am gauge	, monitor well	, aerial photos, pre	vious inspe	ection) if ava	ilable:				
Remarks:											

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