WETLAND DETERMINATION DATA FORM - Alaska Region

	-	City: Matanus	ska-Susitna Borough Sampling Date: 20-Jun-12			
Applicant/Owner: Alaska Energy Authority			Sampling Point: SW12_T27_03			
Investigator(s): JGK	Landfori	Landform (hillside, terrace, hummocks etc.): Bench				
Local relief (concave, convex, none): hummocky	Slope:	Slope: 26.7 % / 15.0 ° Elevation: 910				
Subregion : Interior Alaska Mountains Lat.	62.8713	899083	Long.:148.66036997			
Soil Map Unit Name:	NWI classification: Upland					
	intly disturb y problemat	ic? (If ne	"Normal Circumstances" present? Yes No No eeded, explain any answers in Remarks.)			
Hydric Soil Present? Yes ○ No ● Wetland Hydrology Present? Yes ○ No ●		Is the Sampled Area within a Wetland? Yes ○ No ●				
Remarks: VEGETATION - Use scientific names of plants. List all s Absolu		the plot.	Dominance Test worksheet:			
Tree Stratum % Cov						
1	0		Total Number of Dominant			
	<u> </u>		Species Across All Strata:3(B)			
	<u> </u>	╣	Percent of dominant Species			
	<u> </u>	╣ —	That Are OBL, FACW, or FAC:			
5	Prevalence Index worksheet: Total % Cover of: Multiply by:					
Sapling/Shrub Stratum 50% of Total Cover: 0 2	0% of Total	Cover: 0	OBL Species x 1 =			
1. Betula glandulosa 5	50	FAC	FACW Species 10 x 2 = 20			
2. Salix pulchra	5	FACW	FAC Species <u>87</u> x 3 = <u>261</u>			
	.0	FAC	FACU Species 13 x 4 = 52			
	5 L	FACW	UPL Species 0 x 5 = 0			
	2 [FAC	Column Totals: <u>110</u> (A) <u>333</u> (B)			
	.5 _	FAC	Prevalence Index = B/A = 3.027			
·	.0	FACU				
	1	FACU	Hydrophytic Vegetation Indicators: Dominance Test is > 50%			
·	0 [
10			Prevalence Index is ≤3.0			
Herb Stratum 50% of Total Cover: 49	20% of Total					
	<u>5</u>	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2. Trientalis europaea	<u> </u>	FACU FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
3. Carex bigelowii	0 [✓ FAC				
	0 [ī —	Plot size (radius, or length x width) <u>10m</u>			
0.		<u> </u>	% Cover of Wetland Bryophytes (Where applicable)			
0.			Where applicable) Bare Ground 0			
	0		Total Cover of Bryophytes 70			
	0 [
	0		- Hydrophytic			
Total Cover: 12 50% of Total Cover: 6 2			Vegetation Present? Yes ● No ○			

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW12_T27_03

Profile Descripti	on: (Describe to t	he denth ne	eded to docu	ment the indicator or co	nfirm the al	hsence of indic	ators)				
Depth		1atrix			dox Feat						
(inches)	Color (moist) %		%	Color (moist) % Type ¹		Loc ²	Texture	Remarks			
0-2								Fibric Organics			
2-4.5	10YR	4/2	60					Loamy Sand	40% roots		
4.5-10.5	7.5YR	3/3	80					Sandy Clay Loam	20% Is inclusions incl of scl 10yr 2/1		
10.5-16	10YR	3/2	80		-			Sandy Clay Loam	20% fine gravel		
16-18		3/3	60					Sandy Clay Loam	10% fine gravel 30% round-subangular co		
		-1-							20.00 1 5 5 5		
1 _{Type} C=Cor		Denletion	PM=Reduc	ced Matrix ² Location	- PI =Po	RC	-Root Cha	nnel M=Matriy	. ———		
		Деріссіо	Mil-Rodac	Indicators for Pr				milet Fi-Fidux			
Hydric Soil I				Alaska Color Ch		4	Diis:	Alaska Clayed Without H	··- EV ou Daddar		
	Histel (A1)			Alaska Alpine s		-		☐ Alaska Gleyed Without Hue 5Y or Redder Underlying Layer			
Histic Epip	eaon (A2) Sulfide (A4)			Alaska Redox V	•	•		Other (Explain in Remarks)			
_ ` `	Sumae (A4) Surface (A12)			Audita Nedex .	VIUI ZIJ.	Tiuc		, , , , , , , , , , , , , , , , , , ,	,		
Alaska Gle								nary indicator of wetland h	nydrology,		
Alaska Rec				and an appropriat	e landsca	pe position n	nust be pre	esent			
	yed Pores (A15)		⁴ Give details of co	olor chang	ge in Remark	S				
Restrictive Laye	` `										
Type:	i (ii þresene).							Hydric Soil Present	? Yes ○ No •		
Depth (inch	nes):							nyunc son riesenc	.f 165 \(\times 140 \(\times \)		
Remarks:											
Kemaiks.											
											
HYDROLO		-arei						Casandany Indi	· · · · · · · · · · · · · · · · · · ·		
Wetland Hydi	r ology Indicat tors (any one is		-1					Secondary Indicators (two or more are required) Water Stained Leaves (B9)			
) Summer.	<u>.J</u>	Trundation V	icible on /	Aorial Image	n/(R7)				
	urface Water (A1) ☐ Inundation Visible on Aerial Imagery (B7) gh Water Table (A2) ☐ Sparsely Vegetated Concave Surface (B8)						, , ,	·			
Saturation				Marl Deposits		Illave Juria	.e (D0)	Presence of Reduced Iron (C4)			
Water Mai								Salt Deposits (C5)			
	nt Deposits (B2)								Stressed Plants (D1)		
	eposits (B3) Other (Explain in Remarks)								ic Position (D2)		
	Mat or Crust (B4) Shallow Aquitard (D3)										
	posits (B5) Microtopographic Relief (D4)										
Surface So	oil Cracks (B6)								al Test (D5)		
Field Observa	ntions:										
Surface Water	Present?	Yes C	No 💿	Depth (inche	:s):						
Water Table P	resent?	Yes C	No 💿	Depth (inche	s):		Wetla	nd Hydrology Presen	nt? Yes O No 💿		
Saturation Pre		Yes 💿	No O	Depth (inche	es): 16						
(includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
(5 5 5											
Remarks:											

U.S. Army Corps of Engineers Alaska Version 2.0