WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site:	Susitna-Watana Hydroelec	tric Project	Bo	orough/City:	Matanusk	a-Susitna Borough Sampling Date:	05-Aug-12					
Applicant/Owner: Alaska Energy Authority Sampling Point: SW12_T35_09												
nvestigator(s):	CTS, EKJ		e, hummocks etc.): Flat									
Local relief (concave, convex, none): flat Slope: 1.7 % / 1.0 ° Elevation: 1009												
Subregion : Inte	erior Alaska Mountains		lat 6	 32.893969908	 7		atum: WGS84					
Soil Map Unit Na				2.000000000		NWI classification: PEM1E						
·	-	(. ((() Van	No ○		<u> </u>					
•	ologic conditions on the si		•			(If no, explain in Remarks.) ormal Circumstances" present? Yes	● No ○					
Are Vegetation		, ,, _		disturbed?		omai on our returned process.	© 110 C					
Are Vegetation \square , Soil \square , or Hydrology \square naturally problematic? (If needed, explain any answers in Remarks.)												
SUMMARY C	F FINDINGS - Attach	n site map show	wing sam	pling point	locations	s, transects, important features,	etc.					
Hydrophy	tic Vegetation Present?	Yes No)									
	oil Present?	Yes No)	Is	Is the Sampled Area							
,	Hydrology Present?	Yes No C		within a Wetland? Yes ● No ○								
	wslm, subarctic lowland we nimbrel breeding habitat	et sedge meadow	bordering o	n wet sedge v	willow tund	ra, shrubs almost entirely on scattered l	hummocks =					
/EGETATIOI	N -Use scientific nam	es of plants. Li	st all spec	cies in the	plot.							
Absolute Do				Dominant	Indicator	Dominance Test worksheet:						
Tree Stratum	_		% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC:	F (A)					
1			0			Total Number of Dominant	(A)					
2			0			Species Across All Strata:	5 (B)					
3			0			Percent of dominant Species						
4			0			That Are OBL, FACW, or FAC:	100.0% (A/B)					
5			0			Prevalence Index worksheet:						
		Total Cover				Total % Cover of: Multiply	by:					
Sapling/Shru	b Stratum 50% of	of Total Cover:	0 20% (of Total Cover:	0	OBL Species65 x 1 =	65					
1. Vacciniu	m uliginosum		3	✓	FAC	FACW Species 8 x 2 =	16					
-	m vitis-idaea				FAC	FAC Species <u>10</u> x 3 =	30					
3. Ledum d	locumbons		3	✓	FACW	FACU Species 2 x 4 =	8					
4. Spiraea	ata vanii		2		FACU	UPL Species0 x 5 =	0					
5. Empetru	m nigrum			✓	FAC	Column Totals: <u>85</u> (A)	119 (B)					
6. Salix fus					FACW							
7. Androme	eda polifolia		2		FACW	Prevalence Index = B/A =	1.400					
8.			0			Hydrophytic Vegetation Indicators:						
9.			0			✓ Dominance Test is > 50%						
10			0			✓ Prevalence Index is ≤3.0						
	Total Cover: Morphological Adaptations ¹ (Provide supporting data in											
Herb Stratum	-	or rotal cover.				Remarks or on a separate sheet)	(Evalain)					
	- 000		- 20	V	OBL	Problematic Hydrophytic Vegetation						
2. Carex a	riflara				OBL	¹ Indicators of hydric soil and wetland hydrobe present, unless disturbed or problemati	ology must ic.					
3. Carex ra					FAC	25 p. eseric, arress distarbed of problemati						
4. Sedum r	narannia				FACW	Plot size (radius, or length x width)	_10m					
	rum angustifolium		2		OBL	% Cover of Wetland Bryophytes	_30					
					OBL	(Where applicable)						
	•					% Bare Ground	3					
_						Total Cover of Bryophytes	_30					
10 U Hydrophytic Total Cover: 67 Vegetation												
	50% (of Total Cover:		of Total Cover:	13.4_	Present? Yes • No						
Demarks						<u>, </u>						
Remarks:	50% (of Total Cover:	33.5 20% c	of Total Cover:	13.4	Present? Tes © NO O						

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SOIL Sampling Point: SW12_T35_09

Profile Descripti		ne depth nee atrix	ded to docume	nt the indicator or co	nfirm the ab		ators)			
Depth (inches)	Color (mois		%	Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks	
0-5	Color (IIIol		80	color (moist)	_/0	Турс	LUC	Fibric Organics	20% roots	
5-16			80					Hemic Organics	20% roots	
					-		-	-		
									-	
¹Type: C=Cor	ncentration. D=I	Depletion. F	RM=Reduced	Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix		
Hydric Soil I	ndicators:		1	Indicators for Pr	oblemati	c Hydric Sc	oils: ³			
Histosol or Histel (A1) Alaska Color Change (TA4)							Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epipedon (A2)				Alaska Alpine s	wales (TA	5)		Underlying Layer		
Hydrogen	Sulfide (A4)		[Alaska Redox V	Vith 2.5Y H	Hue		Other (Explain in Remarl	(S)	
Thick Dark	Surface (A12)			30						
Alaska Gle	yed (A13)			 One indicator of and an appropriat 				nary indicator of wetland hesent	nydrology,	
Alaska Red	, ,					•	·			
Alaska Gle	yed Pores (A15)	1		4 Give details of co	olor chang	е іп кетагк	S			
Restrictive Laye	er (if present):									
Type:								Hydric Soil Present	? Yes 🏵 No 🔾	
Depth (inch	nes):									
Remarks:										
HYDROLO	GY									
Wetland Hydi	rology Indicat	ors:						Secondary Indi	cators (two or more are required)	
Primary Indica	tors (any one is	sufficient)						Water Stai	ned Leaves (B9)	
✓ Surface W	/ater (A1)			☐ Inundation V	isible on A	erial Imager	y (B7)	Drainage F	Patterns (B10)	
High Wate	er Table (A2)			Sparsely Veg	etated Cor	ncave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)	
✓ Saturation	n (A3)			Marl Deposits	,			Presence o	of Reduced Iron (C4)	
Water Ma				Hydrogen Su	lfide Odor	(C1)		☐ Salt Depos	sits (C5)	
	Deposits (B2)			Dry-Season V					Stressed Plants (D1)	
☐ Drift Depo				U Other (Explai	in in Rema	rks)			ic Position (D2)	
	or Crust (B4)								quitard (D3)	
Iron Depo	oil Cracks (B6)								graphic Relief (D4)	
Field Observa								▼ FAC-Heuti	in rest (D3)	
Surface Water		Yes	No O	Depth (inche	s)· 1					
Water Table P		Yes •			•		Wotla	nd Hydrology Presen	it? Yes • No O	
Saturation Pre				Depth (inche	s): 4		wetiai	na nyarology Presen	it! fes 🥯 No 🖰	
(includes capi		Yes	No \bigcirc	Depth (inche	s): 0					
Describe Recor	ded Data (strea	m gauge, n	nonitor well,	aerial photos, prev	vious inspe	ection) if ava	ilable:			
Remarks:										
Patchy surface	water									

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