WETLAND DETERMINATION DATA FORM - Alaska Region

roject	/Site: Susitna-Watana Hydroe	lectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date:	22-Jun-12
pplica	nt/Owner: Alaska Energy Auth	ority				Sampling Point: SW1	.2_T25_02
vesti	gator(s): JGK		I	Landform (hil	lside, terrac	e, hummocks etc.): Hillside	
ocal r	elief (concave, convex, none):	convex		Slope: 8.7	% / 5.0	° Elevation: 547	
ubreg	ion: Southcentral Alaska		Lat.: 6	52.80432990	 86	Long.: -149.274109968 Datu	m: WGS84
	p Unit Name:		_			NWI classification: Upland	
	natic/hydrologic conditions on the	site typical for this ti	me of vear?	y Yes	● No ○	(If no, explain in Remarks.)	
Are V Are V	egetation , Soil , , , , , , , , , , , , , , , , , , ,	or Hydrology or Hydrology	significantly naturally pro	disturbed?	Are "N (If nee	ormal Circumstances" present? Yes ded, explain any answers in Remarks.)	No O
UIVII				piling point	locations	s, transects, important features, etc	.ز
	Hydrophytic Vegetation Present?		the Sam	npled Area			
	Hydric Soil Present?	Yes O No 🖲			ithin a W		
	Wetland Hydrology Present?	Yes O No 🖲)				
	arks:						
EGE	TATION - Use scientific na	mes of plants. Li	st all spe	cies in the	plot.		
			Absolute	Dominant	Indicator	Dominance Test worksheet:	
	Stratum		% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC:	3 (A)
1.	Picea glauca		5	~	FACU	Total Number of Dominant	
2.	Picea mariana		3	V	FACW	Species Across All Strata:	1 (B)
3.						Percent of dominant Species	
4.						That Are OBL, FACW, or FAC: 75.	0%(A/B)
5.		Tatal Carra				Prevalence Index worksheet:	
		Total Cover		of Total Cover		Total % Cover of: Multiply by:	
Sap	ling/Shrub Stratum 50	% of Total Cover:	_4 20%	of Total Cover	:1.6	OBL Species 0 x 1 =	0
1.	Betula glandulosa		15		FAC	FACW Species 13 x 2 =	26
2.	Vaccinium uliginosum		30	✓	FAC	FAC Species 70 x 3 =	210
3.	Ledum decumbens		10		FACW	FACU Species 6 x 4 =	24
4.	Empetrum nigrum			✓	FAC	UPL Species 0 x 5 =	0
	Galium boreale				FACU	Column Totals: 89 (A)	
6.						Prevalence Index = B/A =2.9	021_
7.							
0.			0			Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%	
						✓ Prevalence Index is ≤3.0	
		Total Cover 0% of Total Cover:	81	of Total Cove	r: <u>16.2</u>	Morphological Adaptations ¹ (Provide sup Remarks or on a separate sheet)	porting data in
1.			0			Problematic Hydrophytic Vegetation ¹ (Ex	plain)
						¹ Indicators of hydric soil and wetland hydrolog	y must
						be present, unless disturbed or problematic.	
						Plot size (radius, or length x width) 1	0m
5.			0				OIII
6.						(Where applicable)	
						% Bare Ground0	
			_			Total Cover of Bryophytes _3	0
10.						Hydrophytic	
	F.C.	Total Cover % of Total Cover:		-f T-t-l C		Vegetation Present? Yes ● No ○	
					: 0	Pleselit: les \hookrightarrow 140 \hookrightarrow	

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SOIL Sampling Point: SW12_T25_02

Profile Descripti		the depth n	eeded to docur	nent the indicator or co	nfirm the ab		ators)				
Depth (inches)							• 2	- Texture	Remarks		
0-4	Color (mo	oist)	<u> </u>	Color (moist)	<u>%</u>	Type ¹	_Loc_ ²	Fibric Organics	Relliai KS		
4-10	2.5YR	2.5/3	90					Fine Loamy Sand	100/ make		
		<u> </u>			-				10% roots		
10-14	10YR	3/6	90					Loamy Sand	10% fine to coarse gravel		
14-18	10YR	3/6	50					Sandy Loam	40% sub ang rocks up to 3in and 10% fine		
								-			
¹Type: C=Cor	ncentration. D	=Depletion	. RM=Reduc	ed Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³				
Histosol or	Histel (A1)			Alaska Color C	hange (TA	4 4)		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	edon (A2)			Alaska Alpine s							
Hydrogen	Sulfide (A4)			Alaska Redox \	Nith 2.5Y H	lue		Other (Explain in Remark	s)		
☐ Thick Dark	Surface (A12	2)		2							
Alaska Gle	yed (A13)			 One indicator of and an appropria 	hydrophyl te landscar	tic vegetatio ne position r	n, one prin nust be pre	mary indicator of wetland hesent	lydrology,		
Alaska Red	dox (A14)				•	•	-				
	yed Pores (A1			⁴ Give details of c	olor chang	e in Remark	S				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes ○ No •		
Depth (inch	ies):										
HYDROLO	GY										
Wetland Hydi	rology Indica	ators:						Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one	is sufficien	t)					Water Stained Leaves (B9)			
Surface W	ater (A1)	Inundation V	isible on A	erial Image	ry (B7)	Drainage Patterns (B10)					
	er Table (A2)			Sparsely Veg	etated Cor	ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)		
Saturation	` '			Marl Deposit	s (B15)			_	f Reduced Iron (C4)		
Water Mai				∐ Hydrogen Տւ				☐ Salt Depos			
	Deposits (B2)			☐ Dry-Season					Stressed Plants (D1)		
☐ Drift Depo				Other (Expla	in in Rema	rks)			ic Position (D2)		
☐ Algai Mat	or Crust (B4)								juitard (D3)		
	oil Cracks (B6)							_	graphic Relief (D4) al Test (D5)		
Field Observa)						TAC-fleutio	ii rest (D3)		
Surface Water		Yes C	No ●	Depth (inche	·e).						
			No 💿		•		Wotla	nd Hydrology Presen	t? Yes ○ No •		
Water Table P		_	_	Depth (inche	es):		Wella	ila nyarology Presen	tr res C NO S		
Saturation Pre (includes capil		Yes C	No ●	Depth (inche	es):						
Describe Record	ded Data (stre	eam gauge	, monitor we	ll, aerial photos, pre	vious inspe	ection) if ava	ilable:				
Remarks:											

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