WETLAND DETERMINATION DATA FORM - Alaska Region

Project/s	Site: Susitna-Watana Hyd	Iroelectric Project		Borough/	/City:	Matanusk	a-Susitna Borough Sampling Date: 04-Aug-13			
Applicar	nt/Owner: Alaska Energy A	Authority					Sampling Point: SW13_T133_08			
nvestig	ator(s): WAD, RWM			_	Landform (hillside, terrace, hummocks etc.): Footslope					
Local re	lief (concave, convex, none)	: planar		_ Slope:	Slope: 21.2 % / 12.0 ° Elevation: 741					
Subregi	on: Interior Alaska Mountai	ins	Lat.:	62.9165	62.916585565 Long.: -148.084874988 Datum: WGS84					
Soil Map	Unit Name:						NWI classification: PFO4B			
Are Ve		, or Hydrology	significan naturally wing sa	ntly disturb problema	oed? tic?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No oded, explain any answers in Remarks.) Iormal Circumstances Present? Yes No No No No No No No No No No			
l \	Hydrophytic Vegetation Presenty Hydric Soil Present? Wetland Hydrology Present? Irks: north facing hillside abo	Yes No Yes No				the Sam ithin a W	pled Area etland? Yes No			
/EGE	TATION - Use scientific	names of plants. L	ist all sp	oecies in	the	plot.				
			Absolut		inant	Indicator	Dominance Test worksheet:			
	Stratum		% Cove			Status	Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)			
1.	Picea glauca		30	<u> </u>	✓	FACU	Total Number of Dominant			
2			0	_			Species Across All Strata: 6 (B)			
3.				_ ;			Percent of dominant Species			
4.			0	_ ;			That Are OBL, FACW, or FAC: 83.3% (A/B)			
5.	no (Church Churchung	Total Cover		_ ` _	Cover:		Prevalence Index worksheet: Total % Cover of: Multiply by:			
Sapii	ng/Shrub Stratum	50% of Total Cover:	<u>15</u> 20	of Total		66	OBL Species 0 x 1 = 0			
1	Alnus viridis ssp. crispa		35		✓	FAC	FACW Species 6 x 2 = 12			
-	Betula nana		25		✓	FAC	FACUS pacies 140 x 3 = 420			
-	Vaccinium uliginosum				✓	FAC	FACU Species 30 x 4 = 120			
-				_		FAC	UPL Species <u>0</u> x 5 = <u>0</u>			
-	Salix pulchra			— ;		FACW	Column Totals: <u>176</u> (A) <u>552</u> (B)			
-	Vaccinium vitis-idaea					FAC	Prevalence Index = B/A = 3.136			
_	Empetrum nigrum					FAC				
				_ ;			Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%			
_				_ ;			Prevalence Index is ≤ 3.0			
10		Total Cove		_	_					
Herb	Stratum	50% of Total Cover:			l Cover	: 18.2	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Equisetum sylvaticum		25	<u> </u>	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Equisetum arvense		20)[✓	FAC	¹ Indicators of hydric soil and wetland hydrology must			
3	Calamagrostis canadensis		5	_ [FAC	be present, unless disturbed or problematic.			
-						FACW	Plot size (radius, or length x width)			
				- ;			% Cover of Wetland Bryophytes			
				_ ;			(Where applicable)			
				_ ;			% Bare Ground			
				- ;			Total Cover of Bryophytes			
			0	- ;						
10		Total Cover		_ `			Hydrophytic Vegetation			
			• 77				T CACIGLIOII			
		50% of Total Cover:			Cover:	11	Present? Yes • No O			

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SOIL Sampling Point: SW13 T133 08

JOIL									Samping	Point: 3W13_1133_06		
Profile Descripti	on: (Describe to t		eded to docum	nent the inc		firm the abs		ators)				
Depth	Matrix				Redo							
(inches)	Color (moist)		<u>%</u>	Color (n	noist)	<u>%</u>	Type ¹	_Loc_ ²	Texture	Remarks		
0-2			100						Fibric Organics	Fibric Organics		
2-7	10YR	3/3	100						Coarse Sand	30 percent coarse fragments		
7-14	2.5Y	4/2	85	2.5Y	6/6	15	RM	PL	Clay Loam			
-									-			
1 _{Type:} C-Cor		Depletion	DM-Poduce	d Matrix	2 Location	DI Dore	Lining DC		nnel. M=Matrix			
		Depletion.	KM=Reduce				_		Tillel. M=Maulx			
Hydric Soil I					ors for Pro		4	oiis:	l			
	Histel (A1)				ka Color Cha		-		Alaska Gleyed Without H Underlying Layer	ue 5Y or Redder		
Histic Epip					ka Alpine sw	`	,		Other (Explain in Remarl			
	Sulfide (A4)			▼ Alas	ka Redox W	ith 2.5Y H	lue	Ш	Other (Explain in Remain	(5)		
	Surface (A12)			³ One ii	ndicator of h	nydrophyt	ic vegetatio	n, one prim	nary indicator of wetland h	nydrology,		
Alaska Gle					appropriate							
Alaska Red	yed Pores (A15	`		4 Give	details of col	or change	e in Remark	S				
)										
Restrictive Laye	,											
Type: clay									Hydric Soil Present	? Yes ● No O		
Depth (inch	nes): 7											
Remarks:												
										ļ		
HYDROLO	GY											
Wetland Hydi	rology Indicat	tors:							Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one is	sufficient)						Water Stai	ned Leaves (B9)		
Surface W	/ater (A1)			☐ In	undation Vis	sible on A	erial Imagei	ry (B7)	☐ Drainage F	Patterns (B10)		
High Wate	er Table (A2)			Sp	arsely Vege	tated Con	cave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)		
✓ Saturation	Saturation (A3) Marl Deposits (B15)								Presence of Reduced Iron (C4)			
☐ Water Mai	rks (B1)			□ Ну	drogen Sulf	ide Odor	(C1)		Salt Deposits (C5)			
Sediment	Sediment Deposits (B2) Dry-Season Water Table (C2)								☐ Stunted or Stressed Plants (D1)			
☐ Drift Depo	osits (B3)				her (Explain				Geomorph	ic Position (D2)		
☐ Algal Mat or Crust (B4) ✓ Shallow Aquitard (D3)									quitard (D3)			
☐ Iron Depo	sits (B5)								Microtopog	graphic Relief (D4)		
Surface So	oil Cracks (B6)								FAC-neutra	al Test (D5)		
Field Observa	ations:											
Surface Water	Present?	Yes 🔾	No 💿	De	epth (inches):						
Water Table P	resent?	Yes \bigcirc	No 💿	De	epth (inches):		Wetlar	nd Hydrology Presen	it? Yes 💿 No 🔾		
Saturation Pre	esent?	Voc (No O			•						
(includes capil	llary fringe)	165 🔾	110 🔾	De	epth (inches): 9						
Describe Record	ded Data (strea	ım gauge,	monitor wel	l, aerial p	hotos, previ	ous inspe	ction) if ava	ilable:				
Remarks:												

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