WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hyd	roelectric Project		Borough/City	/: Matanusk	ka-Susitna Borough Sampling Date: 01-Aug-13
Applica	ant/Owner: Alaska Energy A	uthority				Sampling Point:SW13_T143_08
Investi	gator(s): WAD, RWM			Landform (hillside, terrac	ce, hummocks etc.): Iskeshore
Local r	elief (concave, convex, none):	flat		Slope: 1	.7 % / 1.0	D ° Elevation: 1107
Subreg	ion: Interior Alaska Mountain	าร	Lat.:	63.2189033	303	Long.: -148.228446722 Datum: WGS84
Soil Ma	p Unit Name:					NWI classification: PSS1B
Are V	natic/hydrologic conditions on regetation , Soil	, or Hydrology \Box	significant	tly disturbed? problematic?	(If nee	(If no, explain in Remarks.) Normal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.
	Hydrophytic Vegetation Prese Hydric Soil Present? Wetland Hydrology Present? arks: LAKESHORE BENEATH S	Yes No C)		ls the Sam within a W	npled Area /etland? Yes No
/EGE	ETATION - Use scientific	names of plants. Li	st all sp	ecies in th	e plot.	
			Absolute			Dominance Test worksheet:
Tre	e Stratum_		% Cove		t Indicator Status	Number of Dominant Species
1.			0			That are OBL, FACW, or FAC:5(A)
2.			0			Total Number of Dominant 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:
Sap	ling/Shrub Stratum	50% of Total Cover:	0 209	% of Total Cov	er: <u>0</u>	OBL Species0 x 1 =0
1.	Salix pulchra		15	✓	FACW	FACW Species 20 x 2 = 40
	Betula glandulosa		15		FAC	FAC Species68.1_ x 3 =204.3_
3.	Vaccinium uliginosum		10		FAC	FACU Species x 4 =28
4.	Francisco nieron		20	✓	FAC	UPL Species <u>0</u> x 5 = <u>0</u>
5.	Ledum decumbens		5		FACW	Column Totals: 95.1 (A) 272.3 (B)
6.			0			
7.			^			Prevalence Index = B/A =
8.			0			Hydrophytic Vegetation Indicators:
9.			0			✓ Dominance Test is > 50%
10.			0	_		Prevalence Index is ≤3.0
Her	b Stratum	Total Cover 50% of Total Cover:			ver: <u>13</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Equisetum arvense		15	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Luzula arcuata		2	_	FACU	¹ Indicators of hydric soil and wetland hydrology must
3.	Festuca altaica		5	_	FAC	be present, unless disturbed or problematic.
4.	Anemone narcissiflora		-	- 📙	FACU	Plot size (radius, or length x width)
5.				-	FAC	% Cover of Wetland Bryophytes
6.			2	-	FAC	(Where applicable)
7.	Solidago multiradiata		0.1	-	FACU	% Bare Ground
8.			0.1		FACU	Total Cover of Bryophytes
9.	Stellaria longifolia		2	-	FAC FACU	
10.	Artemisia norvegica	Total Cover		_	TACU	Hydrophytic Vegetation
				- % of Total Cov	er: <u>6.04</u>	Present? Yes No
Rem	arks: dodpul 2, rubarc 2					

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SOIL Sampling Point: SW13_T143_08

(inches)	0-1	-!	01	6-1	-1-43	0/	- 1	Loc ²	Texture	Remarks
0-3	Color (m	oist)	<u>%</u>	Color (m	ioist)	_%_	Type ¹	Loc	Fibric Organics	Remarks
3-5			100						Sapric Organics	
5-9		4/2	100 -						Coarse Sand	_
9-15	5Y	3/1		10YR	6/6	 25	RM		Sandy Loam	- P
				IUIK			- KIYI			
15-17	2.5Y	3/2							Clay Loam	with coarse angular pebbles.
										_
										_
Type: C=Co	ncentration. D	=Depletion	ı. RM=Reduc	ced Matrix	² Location:	PL=Pore	e Lining. RC	=Root Cha	nnel. M=Matrix	_
lydric Soil I	indicators:			Indicate	ors for Pro	blematio	Hydric S	oils: ³		
Histosol o	r Histel (A1)				ka Color Cha		-		Alaska Gleyed Without	Hue 5Y or Redder
Histic Epip	oedon (A2)				ka Alpine sv	•	•		Underlying Layer	1.3
¬ ′ - ັ	Sulfide (A4)			Alas⊦	ka Redox W	ith 2.5Y F	lue		Other (Explain in Rema	rks)
_	k Surface (A12	2)		³ One in	ndicator of h	nydrophyt	ic vegetatio	n, one prin	nary indicator of wetland	hydrology,
☐ Alaska Gle✓ Alaska Re	eyed (A13)			and an	appropriate	landscap	e position r	nust be pre	esent	,
_	eyed Pores (A1	5)		4 Give d	letails of col	or change	e in Remark	is .		
	•	•								
•	er (if present)								Undia Call Barrer	t? Yes ● No ○
Type:									Hydric Soil Presen	t? Yes ♥ No ∪
Depth (inc	hes):									
Depth (inc	hes):									
	hes):									
emarks:	OGY									
YDROLO	OGY Irology Indic									dicators (two or more are required)
YDROLO Vetland Hyd	OGY Irology Indic ators (any one		t)						Water Sta	ained Leaves (B9)
YDROLO Vetland Hyd Primary Indica Surface V	OGY Prology Indicators (any one Vater (A1)		t)		undation Vis				Water Sta	nined Leaves (B9) Patterns (B10)
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