WETLAND DETERMINATION DATA FORM - Alaska Region

-		orough/City:	ivialariusk	ka-Susitna Borough Sampling Date: 20-Aug-15		
pplicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T301_03		
nvestigator(s): SLI, ATH	ı	Landform (hills	side, terrac	ce, hummocks etc.): Hillside		
ocal relief (concave, convex, none): none		Slope: 5.0		-		
ubregion : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84		
oil Map Unit Name:				NWI classification: PSS1B		
•		You Von	No ○			
re climatic/hydrologic conditions on the site typical for this tim Are Vegetation \Box , Soil \Box , or Hydrology \Box si	-	disturbed?		(If no, explain in Remarks.) Normal Circumstances" present? Yes ● No ○		
	-	oblematic?		eded, explain any answers in Remarks.)		
	• •					
SUMMARY OF FINDINGS - Attach site map show	ing sam	pility point	locations	s, transects, important reatures, etc.		
Hydrophytic Vegetation Present? Yes No O		ls	the Sam	npled Area		
Hydric Soil Present? Yes No			thin a Wetland? Yes No			
Wetland Hydrology Present? Yes ● No ○			uiiii a vv	etialid: 100 s No s		
Remarks: Mixed black/white spruce, fairly wet at low points.	Plot in lov	v point.				
EGETATION - Use scientific names of plants. Lis	t all cna	cies in the	nlot			
202 17 110 N - 03e scientific flames of plants. Lis	t all spe	cies iii tiie	piot.	Dominance Test worksheet:		
	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species		
1. Picea glauca	10	<u>Species:</u> ✓	FACU	That are OBL, FACW, or FAC:5(A)		
2 8	10	V	FACW	Total Number of Dominant		
3	0		TACW	Species Across All Strata:6(B)		
4.	0			Percent of dominant Species That Are OBL, FACW, or FAC: 83.3% (A/B)		
5.	0			Prevalence Index worksheet:		
Total Cover:	20			Total % Cover of: Multiply by:		
Sapling/Shrub Stratum 50% of Total Cover: 1	0 20%	of Total Cover:	4	OBL Species $0 \times 1 = 0$		
1. Betula nana	20	✓	FAC	FACW Species 25 x 2 = 50		
2 Vaccinium uliginosum	20	V	FAC	FAC Species 58 x 3 = 174		
3. Picea glauca	7		FACU	FACU Species 17 x 4 = 68		
Rhododendron tomentosum	7		FACW	UPL Species 0 x 5 = 0		
5. Vaccinium vitis-idaea	5		FAC	Column Totals: 100 (A) 292 (B)		
6. Empetrum nigrum	5		FAC			
7. Picea mariana	3		FACW	Prevalence Index = B/A = 2.920		
8. Arctous ruber	_1_		FAC	Hydrophytic Vegetation Indicators:		
9. Salix pulchra	_1_		FACW	✓ Dominance Test is > 50%		
10	0		FAC	✓ Prevalence Index is ≤3.0		
Total Cover: 50% of Total Cover: 3.	<u>69</u> 4.5 20%	of Total Cover	: 13.8	Morphological Adaptations (P ¹ ovide supporting data in Remarks or on a separate sheet)		
4 O		_				
Carex bigelowii Petasites friqidus		✓	FAC FACW	Problematic Hydrophytic Vegetation (Explain)		
D b	1		FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
Rubus chamaemorus 4.			TACV	· · · · · · · · · · · · · · · · · · ·		
5.				Plot size (radius, or length x width) 10m		
6.				% Cover of Wetland Bryophytes (Where applicable)		
7.				% Bare Ground _5		
8.				Total Cover of Bryophytes 90		
9.	0					
10	0			Hydrophytic		
Total Cover:	11	(Vegetation Present? Yes No No		
	5 70%	of Total Cover:	2.2	Present? Yes ♥ No ∪		

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SOIL Sampling Point: SW15_T301_03

Depth (inches)		Matrix			licator or con Red	ox Featu		cators)	_	
0-4	Color (mo	ist)	<u>%</u>	Color (m	oist)	%	Type ¹	Loc ²	Texture	Remarks
									Peat	
4-9									Mucky Peat	
9-10	10YR	3/4	100						Clay Loam	
10-20	5Y	2.5/1	85	10YR	4/4	10	С	PL	Sandy Clay Loam	
+mottle				5YR	3/4	5	С	PL		ox. rhizospheres living roots
	-	-				-		-	-	
									-	
Type: C=Conc	entration. D=	=Depletion.							annel. M=Matrix	
lydric Soil Inc	dicators:			Indicate	ors for Pro	oblematio	Hydric S	oils: ³		
Histosol or H	Histel (A1)			Alask	ka Color Ch	ange (TA4	1)4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epiped	don (A2)			Alask	ka Alpine sv	wales (TA5	5)		Underlying Layer	
Hydrogen Sı	ulfide (A4)			Alask	ka Redox W	/ith 2.5Y F	lue		Other (Explain in Remarl	(S)
Thick Dark S	Surface (A12))		3 One in	diantor of	h, duan h, d	ia vaaatatia		man, indicator of watland b	u, deologi,
Alaska Gleye	ed (A13)						ne position i		mary indicator of wetland hesent	iyurology,
🙎 Alaska Redo	ox (A14)					•	•	•		
☐ Alaska Gleye	ed Pores (A1	5)		*Give u	ietalis oi co	nor change	e in Remark	· ·		
estrictive Layer										
Type: clay lo									Hydric Soil Present	? Yes • No O
obed multiple l	locations out	to >100ft.	West of this	point (pla	ot center), o	depth of o	rganics and	l % coarse	fragments vary, but other	wise soils are as described here.
oils difficult to te				(,, ,					
VDBOLOG	···									
YDROLOG		tors							Cocco dow. Indi	
etland Hydro	ology Indica		<u> </u>							cators (two or more are required)
/etland Hydro	ology Indica ors (any one)	□ In	undation Vi	cible on A	orial Imago	ny (R7)	Water Stai	ned Leaves (B9)
rimary Indicato Surface Wa	ology Indica ors (any one i ater (A1))				erial Image	, , ,	Water Stai	ned Leaves (B9) Patterns (B10)
/etland Hydro <u>rimary Indicato</u> Surface Water High Water	ology Indica ors (any one ater (A1) r Table (A2))	Sp.	arsely Vege	etated Con	erial Image	, , ,	☐ Water Stai☐ Drainage F ✓ Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3
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rimary Indicato Surface Wai High Water ✓ Saturation (Water Mark	ors (any one of the control of the c)	Sp. Ma	arsely Vege arl Deposits drogen Sul	etated Con (B15) fide Odor	ncave Surfa	, , ,	☐ Water Stai ☐ Drainage F ☑ Oxidized R ☐ Presence c ☐ Salt Depos	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) hits (C5)
rimary Indicato Surface Wat High Water ✓ Saturation (Water Mark Sediment D	ors (any one ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2))	Sp. Ma	arsely Vege arl Deposits drogen Sul y-Season W	etated Con (B15) fide Odor Vater Table	ncave Surfa (C1) e (C2)	, , ,		ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) hits (C5) Stressed Plants (D1)
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