WETLAND DETERMINATION DATA FORM - Alaska Region

Applica	•				ca-Susitna Borough Sampling Date: 18-Jun-12
'PP''O	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T08_03
nvesti	gator(s): JGK		Landform (hil	lside, terrac	e, hummocks etc.): Floodplain
Local	relief (concave, convex, none): flat		Slope:		° Elevation: 406
	gion : Southcentral Alaska	l at ·	62.76805819		Long.: -148.824225754 Datum: NAD83
	ap Unit Name:	Luti.	02.70003019	23	
			0 V/	No ○	NWI classification: Upland
Are \	matic/hydrologic conditions on the site typical for thi /egetation $\ \square$, Soil $\ \square$, or Hydrology $\ \square$ /egetation $\ \square$, Soil $\ \square$, or Hydrology $\ \square$	significant	r? res ly disturbed? roblematic?	Are "N	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.)
SUM	MARY OF FINDINGS - Attach site map sh	nowing sar	npling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes O No	•	_		
	Hydric Soil Present? Yes ○ No	•			pled Area
		•	W	ithin a W	etland? Yes ○ No ⊙
Rem					
	ETATION -Use scientific names of plants.	Absolute	Dominant	Indicator	Dominance Test worksheet:
	e Stratum	% Cover		Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
	Picea glauca			FACU	Total Number of Dominant
	Populus balsamifera			FACU	Species Across All Strata: 5 (B)
3.			· 📙		Percent of dominant Species That Are OBL, FACW, or FAC: 40,0% (A/B)
4. 5.			. 📙		111at Are OBL, FACW, OF FAC. 40.0% (A/B)
5.	Total Cov	0			Prevalence Index worksheet:
6			6 of Total Cover	. 2	Total % Cover of: Multiply by:
Sap	bling/Shrub Stratum 50% of Total Cover:	7.5 20%		:3	OBL Species 0 x 1 = 0
1.	Alnus viridis	50	. 💆	FAC	FACW Species 0 x 2 = 0
2.	Viburnum edule		. 💆	FACU	FAC Species 83 x 3 = 249
3.	Rosa acicularis			FACU	FACU Species 42.3 x 4 = 169.2
4.	Salix glauca	1	. 📙	FAC	UPL Species <u>0</u> x 5 = <u>0</u>
5.	Linnaea borealis		. 📙	FACU	Column Totals: <u>125.3</u> (A) <u>418.2</u> (B)
6.					Prevalence Index = B/A =3.338
7.					
8.			. 📙		Hydrophytic Vegetation Indicators:
9.		- 0	· 📙		Dominance Test is > 50%
10.	Total Cov				Prevalence Index is ≤3.0
Hei	rb Stratum 50% of Total Cover:	7012	% of Total Cove	r: <u>15.62</u>	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
1.	Calamagrostis canadensis			FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Anemone richardsonii			FAC	¹ Indicators of hydric soil and wetland hydrology must
3.	Rubus arcticus			FAC	be present, unless disturbed or problematic.
4.	Artemisia tilesii			FACU	Plot size (radius, or length x width)
5.	Mertensia paniculata			FACU	% Cover of Wetland Bryophytes
					(Where applicable)
					% Bare Ground
					Total Cover of Bryophytes
		$ \frac{0}{0}$			Understadio
10.	Total Cov				Hydrophytic Vegetation
1	50% of Total Cover:		6 of Total Cover	: 6.44	Present? Yes ○ No ●

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SOIL Sampling Point: SW12_T08_03

Depth ——	Matrix			Red	ox Featu	res		_	
. : .	olor (moist)	%	Color (m	oist)	%	Type ¹	<u>Loc</u> 2	Texture	Remarks
0-3								Fibric Organics	_
3-4								Hemic Organics	
4-5								Sapric Organics	
5-18 2	.5Y 3/2	50	7.5YR	3/4	25	С	М	Loamy Sand	interbedded O horizons 0.5 in- incl coarse
¹Type: C=Concentra	ation. D=Depleti	on. RM=Redu	ced Matrix	² Location	: PL=Pore	e Lining. RC	=Root Cha	annel. M=Matrix	
Hydric Soil Indica	ors:		Indicato	ors for Pro	blematic	: Hydric S	oils: ³		
Histosol or Histe	(A1)		Alask	a Color Ch	ange (TA4	1) ⁴		Alaska Gleyed Without H	lue 5Y or Redder
Histic Epipedon	(A2)		Alask	a Alpine sv	wales (TA5	5)		Underlying Layer	
Hydrogen Sulfide	-		Alask	a Redox W	/ith 2.5Y F	lue		Other (Explain in Remar	ks)
Thick Dark Surfa	. ,								
Alaska Gleyed (A	` '							mary indicator of wetland I	nydrology,
Alaska Redox (A	-		and an	appropriate	e iandscap	e position i	nust be pr	esent	
Alaska Gleyed Po	•		4 Give d	etails of co	lor change	e in Remark	(S		
Restrictive Layer (if p	resent):								
Type:	,							Hydric Soil Present	:? Yes ○ No •
								•	
Depth (inches):									
, , ,									
emarks:									
LYDROLOGY Wetland Hydrology									icators (two or more are required)
IYDROLOGY Vetland Hydrology Primary Indicators (a	nny one is suffici	ent)						Water Sta	ined Leaves (B9)
IYDROLOGY Wetland Hydrology Primary Indicators (a	nny one is suffici A1)	ent)				erial Image		Water Sta Drainage	ined Leaves (B9) Patterns (B10)
NYDROLOGY Wetland Hydrology Primary Indicators (a Surface Water (High Water Tab	nny one is suffici A1)	ent)	☐ Spa	arsely Vege	etated Cor	erial Image ncave Surfa		Water Sta Drainage Oxidized F	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3)
NYDROLOGY Wetland Hydrology Primary Indicators (a Surface Water (High Water Tab Saturation (A3)	iny one is suffici A1) le (A2)	ent)	☐ Spa		etated Cor	_		Water Sta Drainage Oxidized F	Patterns (B10) Chizospheres along Living Roots (C3) of Reduced Iron (C4)
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NEMARKS: NYDROLOGY Wetland Hydrology Primary Indicators (a Surface Water (a High Water Tab Saturation (A3) Water Marks (B Sediment Depos	iny one is suffici A1) le (A2) 1) sits (B2)	ent)	Spa	arsely Vege rl Deposits drogen Sul y-Season V	etated Cor (B15) fide Odor Vater Tabl	ncave Surfa (C1) e (C2)		Water Sta Drainage Oxidized F Presence Salt Depo	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1)
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Nater Marks (B Sediment Deposits (E Algal Mat or Cru	any one is suffici A1) Ie (A2) I) Sits (B2) S3) St (B4)	ent)	Spa	arsely Vege rl Deposits drogen Sul y-Season V	etated Cor (B15) fide Odor Vater Tabl	ncave Surfa (C1) e (C2)		Water Sta Drainage Oxidized F Presence o Salt Depoi	Patterns (B10) Chizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) nic Position (D2) quitard (D3)
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