BOREHOLE LOG

PROJET: ADAPT
SITE: Beaver Creek
BOREHOLE NO.: 1.1A
COORDINATES: Lat: 62.338144 N Long: 140.839331 W
ELEVATION:
START DATE: 2013-07-18
END DATE: 2013-07-18

Instrumentation
- Temperature sensor (Decagon ECT)
- Temperature sensor (YSI 44033)
- Volumetric water content, temperature and bulk electrical conductivity (Decagon 5ET)
- Volumetric water content (Decagon EC-5)
- Pressure sensor

Instrumentation
- PVC casing

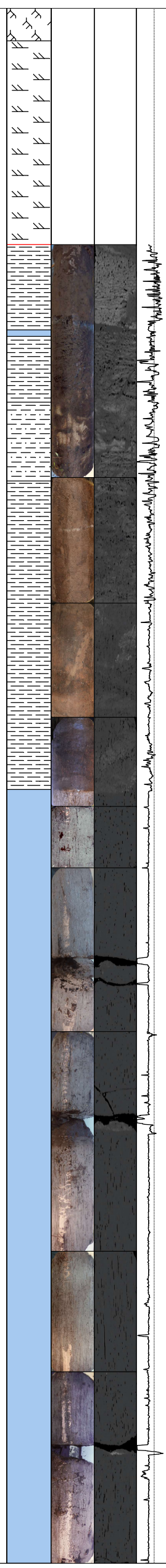
Sampling method
- Excavation
- Diamond core
- Slit spoon
- Destructive

Recovery
- Recovered
- No recovery

Sample state
- *Ud-F* Undisturbed and frozen
- *Ud-Uf* Undisturbed and unfrozen
- *D-F* Disturbed and frozen
- *D-Uf* Disturbed and unfrozen

C/H/N
- *w* Water content (%)
- *p* Bulk density (g/cm-3)
- C Carbon (%)
- H Hydrogen (%)
- N Nitrogen (%)

Stratigraphic information | **Sampling characteristic** | **Laboratory analysis**



Depth (m)	Stratigraphy	Soil description	Sampling method	Recovery	Sample state	Sample name	Volume (%) Soil / Ice / Air	Water content (%)	Salinity (ppm)	Grain size G	Grain size S	Grain size M-C	Consistency wl	Consistency wp	Consistency Ip	Consistency IL	USCS	Consol. kPa 25	Consol. kPa 50	Consol. kPa 100	C/H/N w	C/H/N p	C/H/N C	C/H/N H	C/H/N N	Radiocarbon dates 14C (BP)	±	Material
0.00		Mosses, lichens and sphagnum.			D-Uf																							
		Fibrous organic matter. Groundwater table at 0,10 m and thaw front at 0,36 m.																										
		Silt with organic matter. Permafrost has a microlenticular cryostructure. The ice lenses between 0,49m and 0,5 m may correspond to the base of active layer. Very ice rich permafrost between 0,50 and 0,60m with vertical ice veins and ice lenses.			Ud-F	BC11A_36-38															57.980	1.054	18.931	2.721	0.995			
		Sandy silt. Microlenticular cryostructure.				BC11A_70-72															70.393	0.895	20.145	2.724	0.944			
		Silt with organic matter. Ice-rich permafrost with microlenticular cryostructure. Presence of ice lenses of 5 mm thick between 0,8 and 0,84 m.			Ud-F	BC11A_72-74															73.585	1.361	21.047	3.066	0.956			
						BC11A_89-91															72.371	0.699	18.749	2.621	0.873			
-1.00					Ud-F	BC11A_91-93															68.351	1.093	23.341	3.329	1.056			
						BC11A_103-105															83.058	0.890	32.569	4.490	1.842			
					Ud-F	BC11A_105-107															97.490	1.159	18.538	2.905	1.193			
		Pure ice. Multiple elongated air bubbles. Probably an ice wedge.				BC11A_118-120															83.609	0.903	29.881	4.137	1.484			
					Ud-F																							
					Ud-F																							
						BC11A_152-154															87.468	0.733	15.709	2.089	0.713			
					Ud-F																							
						BC11A_183-185															99.109	0.613	16.905	2.551	0.824			
-2.00					Ud-F																							
					Ud-F																							

End of borehole at 2,37 m.

Version 1.4 E. L'Hérault and A-S. Carbonneau (2015-06)