BOREHOLE LOG

PROJET: ADAPT
SITE: Beaver Creek
BOREHOLE NO.: 1.1B
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

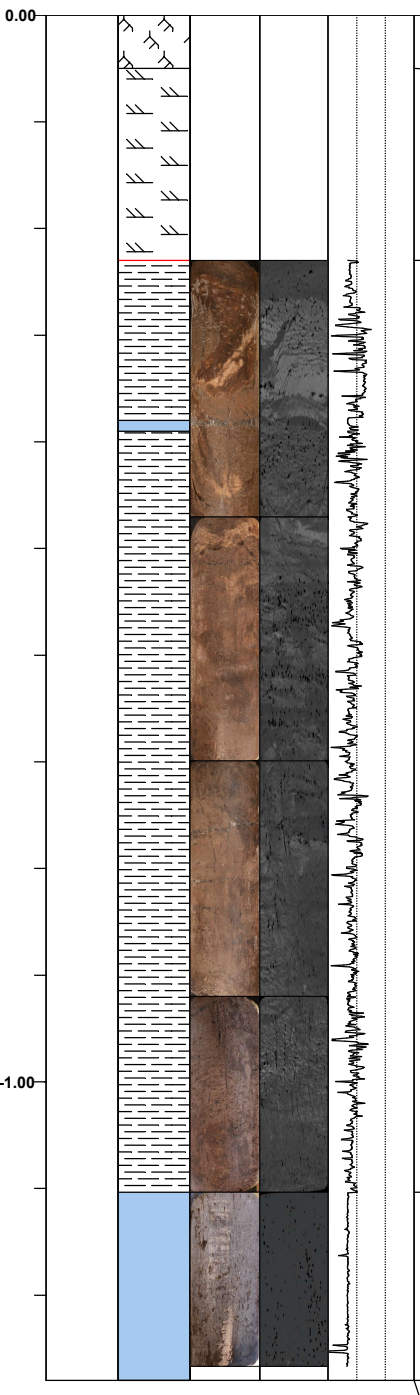
Sampling method
- Excavation
- Diamond core
- Slit spoon
- Destructive

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 (%)
- ρ Bulk density (g/cm-3)
- C Carbon (%)
- H Hydrogen (%)
- N Nitrogen (%)

Stratigraphic information | Sampling characteristic | Laboratory analysis



Depth (m)	Stratigraphy	Soil description	Sampling method	Sample state	Sample name	Water content (%)	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 ρ	C/H/N C	C/H/N H	C/H/N N	Radiocarbon dates 14C (BP)	±	Material
		Mosses, lichens and sphagnum.		D-Uf																					
		Fibrous organic matter. Groundwater table at 0, 10 m and thaw depth at 0, 23 m.		D-Uf																					
		Silt and fibrous organic matter. Ice-rich permafrost with lenticular and porous cryostructure. Possibly the base of the active layer between 0,39 and 0,40 m. Between 1,03 m and 1,10 m. the permafrost has a reticulated cryostructure.		Ud-F	BC1,1B_23-25													72.638	0.828	33.305	4.189	1.792			
				Ud-F	BC1,1B_45-47													60.589	0.986	12.373	1.747	0.661			
				Ud-F	BC1,1B_47-49													49.340	1.217	10.099	2.147	0.555			
				Ud-F	BC1,1B_67-69													74.980	0.926	22.246	2.952	1.042			
				Ud-F	BC1,1B_69-71													76.597	1.027	18.866	2.574	0.950			
				Ud-F	BC1,1B_88-90													69.594	0.992	15.451	2.286	0.859			
				Ud-F	BC1,1B_90-92													72.917	0.723	13.423	1.964	0.745			
				Ud-F	BC1,1B_108-110													76.475	0.989	19.495	2.662	1.111			
		Massice ice with many elongated air bubbles. Probably ice wedge.		Ud-F																					

End of borehole at 1,28 m.

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