# BOREHOLE LOG

**PROJET:** Iqaluit Airport
**SITE:** Taxiway A - Est
**BOREHOLE NO.:** IQA_AERO_DDH_13_10
**COORDINATES:** X:522023.3512 Y:7070177.4645
**ELEVATION:** 27
**START DATE:** 12-05-2013
**END DATE:** 13-05-2013

**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 (%)

| Depth (m) | Stratigraphy | Soil description | Sampling method | Recovery | Sample state | Sample name | 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 C1 | Consol. kPa C2 | Consol. kPa C3 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | | Asphalt (0,15 m). | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Brown sand and gravel. | | | D-Uf | 13_10_15-33 | 2.9 | | 38.7 | 45.5 | 15.8 | 21.0 | 14.8 | 6.2 | -1.9 | SM-SC | | | | | | | | | | | |
| | | | | | Ud-F | 13_10_33-73 | 9.4 | | | | | | | | | | | | | | | | | | | | |
| -1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | D-Uf | 13_10_123-173 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | D-Uf | 13_10_173-216 | 2.8 | | 14.8 | 81.3 | 3.9 | | | | | SP | | | | | | | | | | | |
| -2.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | |



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

# BOREHOLE LOG

**PROJET:** Iqaluit Airport
**SITE:** Taxiway A - Est
**BOREHOLE NO.:** IQA_AERO_DDH_13_10
**COORDINATES:** X:522023.3512 Y:7070177.4645
**ELEVATION:** 27
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**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

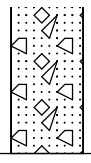
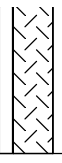
**Instrumentation**
- PVC casing

**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 (%)

| Depth (m) | Instrumentation | Stratigraphy | Image | CT (HU) 3071 / -1024 | TI profile (HU) -1024 / 1024 / 3071 | Soil description | Sampling method | Recovery | Sample state | Sample name | Volume (%) Soil / Ice / Air 0 / 100 | 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 C1 | Consol. kPa C2 | Consol. kPa C3 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | |  | | | | End of borehole at 2,9 m. | |  | | | | | | | | | | | | | | | | | | | | | | | | |



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