Ministère des Ressources naturelles et des Forêts
Québec ✚✚

Direction générale de Géologie Québec

SÁGÉOM
Système d'information géominière du Québec

Density and magnetic susceptibility measurements database

The files provided in this report present a compilation of density and magnetic susceptibility measurements carried out since the summer of 2018 as part of the field laboratories associated with the MRNF's geological mapping projects of basement rock. Sample preparation and measurements were conducted following the protocol developed as a result of a partnership between the MRNF and Université Laval's geophysical instrumentation laboratory (GIGUL) (MB 2024-06). Data also include the sampled outcrops numbers, their location, the type of rock and comments on the measurements.

Data is available in four different formats:

- CSV format
- FGBD format
- Shapefile format
- GPKG format

The descriptive fields are:

1) Unique sample number (NUMR_ECHN_UNIQ)
2) Field number, if available (NUMR_ECHN_ROCH_GEOLG)
3) Geofiche outcrop number (NUM_AFLR_GEOFC)
4) Geological unit identifier, unit A, B, C, etc (IDNT_CORPS_GEOLG)
5) Field outcrop number (NUMR_AFLR_GEOLG)
6) Observation date (DATE_OBSR)
7) Rock type (CODE_TYPE_ROCH)
8) Easting (ESTN)
9) Northing (NORD)
10) Zone (FUS)
11) NTS map-sheet number (NUMR_FEUILT)
12) Density (VAL_DENSI) (g/cc)
13) Comment from the operator who measured the density, if applicable (COM_MESUR_DENSI)
14) Mag susceptibility (×10-3 SI) (VAL_SUSCE_MAGNE)

15) Number of measurements used to average the mag susceptibility of a sample (NB_MESUR_SUSCE): if the sample has only one flat face, the susceptibility is calculated as the average of three readings. However, if it has two flat faces, the susceptibility is calculated as the average of six readings

16) Type code for statistical measurement of magnetic susceptibility (CODE_MESR_STAT_SUSCE), M1: sample has a single flat face, M1_2: sample has two flat faces; M: average of several readings possibly on more than one face

17) Comment from the operator who measured the magnetic susceptibility, if applicable (COM_MESUR_SUSCE)

18) Web link to the geofiche outcrop where the sample was taken (URL_AFLR_GEOFC)

19) Web link to the geochemical analysis of the sample (if available) (URL_ECHN_ROCH)