SOIL ENGINEERING

Industry Leading
Geotechnical Testing

GEOTECHNICAL LABORATORY

AND INSITU TESTING SERVICES

Our in house Geotechnical Laboratory allows us to deliver a comprehensive geotechnical package for any client.
Our capabilty to deliver UKAS accredited tests provides assurance that your work is undertaken correctly, every time.

SOIL TESTING

Undertaking testing on a wide variety of materials, our Geotechnical Laboratory accepts samples from both internal and external projects. Capable of completing over 28,000 individual tests per year in a single location, our team deliver a market leading range of Geotechnical analyses.

TRIAXAL TESTING

- Quick Undrained Triaxial
- Consolidated Drained & Undrained Triaxal

SHEAR BOX TESTING

- Small & Large Sheerbox
- Ring Shear

EARTHWORKS TESTING

- Compaction
- California Bearing Ratio
- Moisture Condition Value / Relationship

CONSOLIDATION & PERMEABILITY

- Odeometer Consolidation
- Constant Head Permeability
- Triaxial Permeability

ROCK TESTING

Our comprehensive geotechnical rock testing capability is one of the largest accredited offerings in the UK geotechnical industry.

UNCONFINED COMPRESSIVE STRENGTH

Rock strength under compression

SHEAR STRENGTH OF ROCK JOINTS

Direct shear testing on natural and induced rock discontinuities

YOUNG MODULUS OF ELASTICITY

Strain measurement during UCS testing

CHERCHAR ABRASIVITY TEST

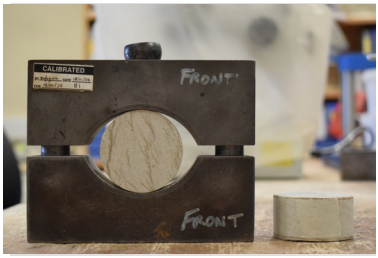
Rock abrasiveness for excavation purposes

SLAKE DURABILITY TEST

Resistance to disintefration under cyclic wetting and drying

ROCK TRIAXIAL TESTING

Rock strength in triaxial compression



BRAZIL TEST

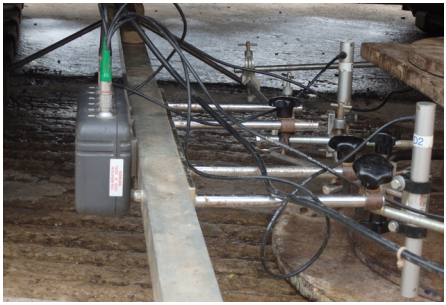
Dynamic tensile test

In addition to the above, the Geotechnical Laboratory at Soil Engineering offers a full range of classification testing for both soils and rocks. Click on the image above to see our full suite of accredited tests.

IN SITU TESTING

PLATE LOAD TESTING

Establish bearing capacity and settlement under a given load



CALIFORNIA BEARING RATIO

Evaluation of soils for road bearing capabilities

SAND REPLACEMENT DENSITY

In-situ density for pavement design