



**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 capability 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.

## TRIAXIAL TESTING

- Quick Undrained Triaxial
- Consolidated Drained & Undrained Triaxial

## SHEARBOX TESTING

- Small & Large Shearbox
- Ring Shear



## EARTHWORKS TESTING

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

## CONSOLIDATION & PERMEABILITY

- Oedometer 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'S MODULUS OF ELASTICITY

Strain measurement during UCS testing

## CERCHAR ABRASIVITY TEST

Rock abrasiveness for excavation purposes

## SLAKE DURABILITY TEST

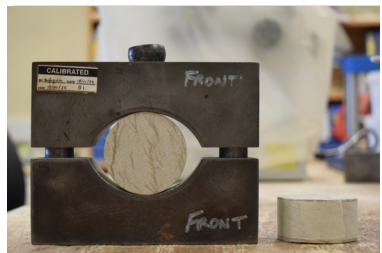
Resistance to disintegration under cyclic wetting and drying

## 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 [here](#) 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



## ALSO AVAILABLE

Thermal Resistivity Testing  
Hand Vane  
Borehole Vane  
Penetrometer  
Electrical Resistivity  
Permeability

# CONTACT US

## OUR LOCATIONS



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