In situ testing services

- Nationwide coverage
- Typical lead time of one to two days
- Quick turnaround on results
- UKAS accredited

Structural Soils Ltd provides a broad range of in situ tests. Our technicians are trained and experienced in the following tests, among others.

California bearing ratio (CBR) testing
A penetration test for evaluating the mechanical strength of road subgrades, which is usually carried out on-site using a vehicle-mounted CBR machine.

Sand replacement density (SRD) testing
A method for determining the dry density of undisturbed or compacted soil and granular materials by sand replacement.

Lightweight deflectometer (LWD) testing
A type of plate test that can assess the compaction of a surface and calculate EV/Ev₂ and CBR values.

Plate bearing testing (PBT)
A method for testing the bearing capacity of the ground to determine settlement under load on soil, fill and sub-base. The readings can be used to calculate equivalent CBR values on materials too coarse for standard CBR tests.

Nuclear density gauge (NDG) testing
A test to establish the moisture content, wet density and dry density of soil and granular construction materials.

Soakaway/infiltration testing
An infiltration test (permeability) to assess the drainage capabilities of any given ground material.

Geotechnical and materials testing
Structural Soils operates four geotechnical laboratories in Bristol, Castleford, Hemel Hempstead and Tonbridge.

Soil, rock and aggregate are tested in accordance with up-to-date standard methods. All four laboratories are UKAS accredited.

The tests include effective stress, triaxial testing up to 100-mm diameter, shear box testing up to 300 × 300 mm and ring shear testing.

To discuss geotechnical and materials testing, please contact: Dimitris Xirouchakis: dimitris.xirouchakis@soils.co.uk (Tel: +44 (0)117 947 1000) or Alan Frost: alan.frost@soils.co.uk (Tel: +44 (0)117 947 1000).

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For further information, visit us at www.soils.co.uk.

RSK Group plc has achieved certification to the ISO 9001, ISO 14001 and OHSAS 18001 standards for quality, environmental and health and safety management.