# Schedule of Accreditation

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**2519**

**Accredited to ISO/IEC 17025:2005**

## K4 Soils Laboratory

**Issue No:** 008 **Issue date**: 10 June 2010


**Unit 8, Olds Close**
**Watford**
**Olds Approach**
**Herts.**
**WD18 9RU**

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**Testing performed by the Organisation at the locations specified below**

**Locations covered by the organisation and their relevant activities**

**Laboratory locations:**

| Location details | Activity | Location code |
|---|---|---|
| **Address**<br>Unit 8, Olds Close<br>Olds Approach<br>Watford<br>Herts.<br>WD18 9RU<br><br>**Local contact**<br>Mr K D Phaure | Testing soils for civil engineering purposes and aggregates | A |

**Site activities performed away from the locations listed above:**

| Location details | Activity | Location code |
|---|---|---|
| Ground Investigation sites | Plate loading and CBR testing, in situ density and DCP testing | B |

DETAIL OF ACCREDITATION

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|---|---|---|---|
| AGGREGATES | Particle size distribution – sieving method | BS EN 933-1:1997 | A |
| SOILS for civil engineering purposes | Moisture content oven drying method | BS 1377:Part 2:1990 | A |
| | Saturation moisture content of chalk | BS 1377:Part 2:1990 | A |
| | Liquid limit<br>- cone penetrometer | BS 1377:Part 2:1990 | A |
| | Plastic limit | BS 1377:Part 2:1990 | A |
| | Plasticity index and liquidity index | BS 1377:Part 2:1990 | A |
| | Linear shrinkage | BS 1377:Part 2:1990 | A |
| | Particle density – gas jar | BS 1377:Part 2:1990 | A |
| | Particle density – small pyknometer | BS 1377:Part 2:1990 | A |
| | Particle size distribution<br>- wet sieving | BS 1377:Part 2:1990 | A |
| | Particle size distribution<br>- dry sieving | BS 1377:Part 2:1990 | A |
| | Particle size distribution hydrometer method | BS 1377:Part 2:1990 | A |
| | Particle size distribution – pipette method | BS 1377:Part 2:1990 | A |
| | Dry density/moisture content relationship (2.5 kg rammer) | BS 1377:Part 4:1990 | A |
| | Dry density/moisture content relationship (4.5 kg rammer) | BS 1377:Part 4:1990 | A |
| | Dry density/moisture content relationship (vibrating hammer) | BS 1377:Part 4:1990 | A |

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|---|---|---|---|
| SOILS for civil engineering purposes (cont'd) | California Bearing Ratio (CBR) | BS 1377:Part 4:1990 | A |
| | Moisture condition value (MCV) | BS 1377:Part 4:1990 | A |
| | Chalk crushing value | BS 1377:Part 4:1990 | A |
| | One-dimensional consolidation properties | BS 1377:Part 5:1990 | A |
| | Undrained shear strength - triaxial compression without measurement of pore pressure | BS 1377:Part 7:1990 | A |
| | Undrained shear strength - triaxial compression with multistage loading and without measurement of pore pressure | BS 1377:Part 7:1990 | A |
| | Shear strength - small shearbox | BS 1377:Part 7:1990 | A |
| | Shear strength - large Shearbox | BS 1377:Part 7:1990 | A |
| | Residual strength – small ring shear apparatus | BS 1377:Part 7:1990 | A |
| | Determination of the state of desiccation in clay soils | Documented In-House Method based on BRE Information Paper 4/93 | A |
| | Effective angle of internal friction and effective cohesion of earthworks materials | BS 1377:Part 7:1990 and Specification for Highway Works: November 2006: clause 636 | A |
| | In-situ California Bearing Ratio (CBR) | BS 1377:Part 9:1990 | B |
| | In-situ density - sand replacement method (large pouring cylinder) | BS 1377:Part 9:1990 | B |
| | In-situ density - core cutter method | BS 1377:Part 9:1990 | B |

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|---|---|---|---|
| SOILS for civil engineering purposes (cont'd) | Vertical deformation and strength characteristics of soil by the plate loading test | BS 1377:Part 9:1990 | B |
| | Equivalent CBR value by the plate loading test | BS 1377:Part 9:1990 and Design Manual for Roads and Bridges: volume 7: HD 25/94 | B |
| | Strength characteristics using the Dynamic Cone Penetrometer (DCP) | Documented In-House Method based on TRL Information Note – R 8157 – "Improved measurement of pavement strength by Dynamic Cone Penetrometer" | B |
| END | | | |