

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <b>Accredited to ISO/IEC 17025:2005</b>	<b>Soil Mechanics</b>	
	Issue No: 023    Issue date: 20 March 2012	
	<b>Askern Road Carcroft Doncaster South Yorkshire DN6 8DG</b>	<b>Contact: Mr G P Keeton Tel: +44 (0)1302 723456 Fax: +44 (0)1302 725240 E-Mail: peter.keeton@esgl.co.uk Website: www.esgl.co.uk</b>
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
<b>Address</b> Askern Road Carcroft Doncaster South Yorkshire DN6 8DG  <b>Local contact</b> Mr G P Keeton	Testing of soil and rock for civil engineering purposes	A

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

Location details	Activity	Location code
Ground Investigation Sites	In-situ testing of soils for civil engineering purposes	B
Ground Investigation Sites  Dr R Cooke (Geocone) Tel: 01244 288200 Fax: 01244 288100 Email: geocone@esgl.co.uk	Cone penetration testing	C



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ROCK	Point load strength and anisotropy indices	ISRM Commission on Testing Methods, Suggested Method for Determining Point Load Strength 1985	A
	Uniaxial compressive strength	ISRM Commission on Testing Methods, Suggested Method for Determining Uniaxial Compressive Strength 1985	A
	Water content	ISRM Suggested Methods - Rock Characterization Testing and Monitoring Ed. E T Brown - 1981	A
	Porosity and density - by saturation and buoyancy techniques	ISRM Suggested Methods - Rock Characterization Testing and Monitoring Ed. E T Brown - 1981	A
SOILS for civil engineering purposes	Organic matter content	BS 1377:Part 3:1990	A
	Mass loss on ignition	BS 1377:Part 3:1990	A
	Sulphate content of soil and ground water - gravimetric method	BS 1377:Part 3:1990	A
	Carbonate content - rapid titration method	BS 1377:Part 3:1990	A
	Water-soluble chloride content	BS 1377:Part 3:1990	A
	pH value	BS 1377:Part 3:1990	A
	California Bearing Ratio (CBR)	BS 1377:Part 4:1990	A
	Shear strength - small shearbox	BS 1377:Part 7:1990	A
	Shear strength - large shearbox	BS 1377:Part 7:1990	A



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SOILS for civil engineering purposes (cont'd)	Residual strength - small ring shear apparatus	BS 1377:Part 7:1990	A
	Unconfined compressive strength - load frame method	BS 1377:Part 7:1990	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
	Effective shear strength - consolidated-undrained triaxial compression test with measurement of pore pressure	BS 1377:Part 8:1990	A
	Effective shear strength consolidated-drained triaxial compression test with measurement of volume change	BS 1377:Part 8:1990	A
	Effective shear strength - (isotropically) consolidated undrained multistage triaxial compression test with measurement of pore pressure	Documented In-House Method SML PROC/0041 based on BS 1377:Part 8:1990	A
	Effective shear strength - consolidated drained multistage triaxial compression test with measurement of volume change	Documented In-House Method TP 0043 based on BS 1377: Part 8:1990	A
	Moisture content - oven drying method	BS 1377:Part 2:1990	A
	Saturation moisture content of chalk	BS 1377:Part 2:1990	A
Liquid limit - cone penetrometer	BS 1377:Part 2:1990	A	



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SOILS for civil engineering purposes (cont'd)	Liquid limit - cone penetrometer - one point	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
	Density - linear measurement	BS 1377:Part 2:1990	A
	Density - immersion in water	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 density - large pyknometer	BS 1377:Part 2:1990	A
	Particle size distribution - wet sieving	BS 1377:Part 2:1990	A
	Particle size distribution - dry sieving	BS 1377:Part 2:1990	A
	Particle size distribution - sedimentation - pipette method	BS 1377:Part 2:1990	A
	Particle size distribution - sedimentation - hydrometer method	BS 1377:Part 2:1990	A
	Resistivity - Wenner probe method	BS 1377:Part 3:1990	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	



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SOILS for civil engineering purposes (cont'd)	Maximum and minimum dry densities for granular soils	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
	Swelling and collapse characteristics	BS 1377:Part 5:1990	A
	Permeability - constant head method	BS 1377:Part 5:1990	A
	Consolidation properties using a hydraulic cell	BS 1377:Part 6:1990	A
	Permeability in a hydraulic consolidation cell	BS 1377:Part 6:1990	A
	Isotropic consolidation properties using a triaxial cell	BS 1377:Part 6:1990	A
	Permeability in a triaxial cell	BS 1377:Part 6:1990	A
	Accelerated permeability test	Environment Agency R & D Technical Report P1-398/TR/2	A
	Soil suction (filter-paper method)	Documented In-House Method No SML PROC/0042 (June 1996) based on BRE IP4/93	A
	One-dimensional consolidation properties	Documented In-House Method SML PROC/0023A	A
Permeability - falling head method	Documented In-House Method SML PROC/0040 based on Head, K H: Manual of Soil Laboratory Testing, Vol 2, Sect 10.7.2	A	
In-situ density - sand replacement method (large pouring cylinder)	BS 1377:Part 9:1990	B	



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SOILS for civil engineering purposes (cont'd)			
GEOCONE	Penetration resistance using the fixed 60° cone and friction sleeve (static cone penetration test CPT)	BS 1377:Part 9:1990 Continuous measurement using a penetrometer tip with electrical sensors for cone and sleeve resistance and inclination	C
GEOCONE	Penetration resistance using the fixed 60° cone and friction sleeve (static cone penetration test CPT)	BS 1377:Part 9:1990 Continuous measurement using a penetrometer tip with electrical sensors for cone and sleeve resistance and inclination and piezometric pressure	C
GEOCONE	Electronic friction cone and piezocone testing	ASTM D 5778	C
END			