


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p>1464</p> <p>Accredited to ISO/IEC 17025:2005</p>	<b>Ian Farmer Associates (1998) Ltd</b> <b>Trading as Ian Farmer Associates</b>	
	<b>Issue No: 030</b>	<b>Issue date: 22 September 2017</b>
<b>4 Faraday Close</b> <b>District 15</b> <b>Pattinson North Industrial Estate</b> <b>Washington</b> <b>Tyne and Wear</b> <b>NE38 8QJ</b>	<b>Contact: Mr P Cathcart</b> <b>Tel: +44 (0)191 482 8500</b> <b>Fax: +44 (0)191 482 8520</b> <b>E-Mail: paul.cathcart@ianfarmer.co.uk</b> <b>Website: www.ianfarmer.co.uk</b>	
<b>Testing performed by the Organisation at the locations specified below</b>		

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

#### Laboratory locations:

Location details	Activity	Location code
<b>Address</b> 4 Faraday Close District 15 Pattinson North Industrial Estate Washington Tyne and Wear NE38 8QJ	<b>Local contact</b> Mr P Cathcart Tel: +44 (0)191 482 8500 Email: washington@ianfarmer.co.uk	Testing: Aggregates - Mechanical & Physical Tests Concrete Mechanical & Physical Tests Soils - Mechanical & Physical Tests
		A

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

Location details	Activity	Location code
<b>Address</b> All locations suitable for the activities listed	<b>Local contact</b> Mr P Cathcart Tel: +44 (0)191 482 8500 Email: washington@ianfarmer.co.uk	Testing: Concrete - Non-destructive Tests & Sampling Soils - Physical Tests
		X



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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
AGGREGATES	Methods for sampling - from stockpiles	BS EN 932-1:1997	X
	Reduction of laboratory samples	BS EN 932-2:1999	A X
	Ten per cent fines value - dry - particle size 10 mm and greater	BS 812-111:1990	A
	Ten per cent fines value - soaked - particle size 10 mm and greater	BS 812-111:1990	A
	Aggregate crushing value - particle size 10 mm and greater	BS 812-110:1990	A
	Frost-heave	BS 812-124:2009	A
	Particle size distribution - sieving method	BS EN 933-1:2012	A
	Classification test for the constituents of coarse recycled aggregate	BS EN 933-11:2009	A
	Resistance to fragmentation by the Los Angeles Method	EN 1097-2:2010	A
	Water content - drying in a ventilated oven	BS EN 1097-5:2008	A
	Particle density and water absorption - particles between 31.5mm and 63 mm	BS EN 1097-6:2013	A
	Particle density and water absorption - particles between 4 mm and 31.5 mm	BS EN 1097-6:2013	A
Particle density and water absorption - particles between 0.063 mm and 4 mm	BS EN 1097-6:2013	A	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
AGGREGATES (cont'd)	Magnesium Sulphate Tests	BS EN 1367-2:2009	A
	Frost-heave	Specification for Highway Works, HMSO 2004	A
CONCRETE - hardened	Compressive strength of cubes - including curing	BS EN 12390-3:2009 BS EN 12390-1:2012 BS EN 12390-2:2009	A
	Cored specimens - examining and testing in compression	BS EN 12504-1:2009	A
	Density	BS EN 12390-7:2009	A
	Sampling of concrete by dust drilling	Documented In-House Method No. 112, October 2002	X
	Carbonation	BS EN 14630:2006	X
	Resistivity	Documented In-House Method No. 109, September 2002	X
CONCRETE - reinforced	Location of reinforcement	BS 1881-204:1988	X
	Half-cell potential of uncoated reinforcing steel in concrete	ASTM C876-09	X
GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil	Water content	BS EN ISO 17892-1:2014	A
	Bulk density - linear measurement method	BS EN ISO 17892-2:2014	A
	Determination of particle size distribution -sieving method -pipette method -hydrometer method	BS EN ISO 17892-4:2016	A
	Incremental loading oedometer test	BS EN ISO 17892-5:2017	A
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	A
	Liquid limit - cone penetrometer	BS 1377-2:1990	A
	Plastic limit	BS 1377-2:1990	A



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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)	Plasticity index and liquidity index	BS 1377-2:1990	A
	Particle size distribution - wet sieving	BS 1377-2:1990	A
	Particle size distribution - dry sieving	BS 1377-2:1990	A
	Particle size distribution - sedimentation - hydrometer method	BS 1377-2:1990	A
	Particle size distribution - sedimentation - pipette method	BS 1377-2:1990	A
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377-4:1990	A
	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377-4:1990	A
	Dry density/moisture content relationship (vibrating hammer)	BS 1377-4:1990	A
	Moisture condition value (MCV)	BS 1377-4:1990	A
	MCV/moisture content relation	BS 1377-4:1990	A
	California Bearing Ratio (CBR)	BS 1377-4:1990	A
	Measurement of swelling of soaked CBR specimen	BS 1377-4:1990	A
	One-dimensional consolidation properties	BS 1377-5:1990	A
	Permeability in a triaxial cell	BS 1377-6:1990	A
Shear strength by direct shear (small shearbox apparatus)	BS 1377-7:1990	A	



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SOILS for civil engineering purposes (cont'd)	Undrained shear strength - triaxial compression without measurement of pore pressure	BS 1377-7:1990	A
	Undrained shear strength - triaxial compression with multistage loading and without measurement of pore pressure	BS 1377-7:1990	A
	Consolidated-undrained triaxial compression test with measurement of pore pressure	BS 1377-8:1990	A
	Consolidated-drained triaxial compression test with measurement of volume change	BS 1377-8:1990	A
	Consolidated-undrained triaxial compression test with measurement of pore pressure –multi-stage loading	Documented In-House Method test procedure 171 : 2014	A
	Consolidated-drained triaxial compression test with measurement of volume change –multi-stage loading	Documented In-House Method test procedure 171 : 2014	A
	In-situ density - sand replacement method (large pouring cylinder)	BS 1377-9:1990	X
	In-situ density - sand replacement method (small pouring cylinder)	BS 1377-9:1990	X
	In-situ density - core cutter method	BS 1377-9:1990	X
	In-situ density - nuclear method - compliance tests - comparative tests	BS 1377-9:1990	X
Vertical deformation and strength characteristics of soil by the plate loading method	BS 1377-9:1990	X	



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SOILS for civil engineering purposes (cont'd)	Equivalent CBR using the plate load test	Department of Transport HD 25/94 and IAN 73/06 : Design Guidance for Road Pavement Foundations : Specification for Highway Works	X
UNBOUND and HYDRAULICALLY BOUND MIXTURES	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2003	A
END			