

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>2581</p> <p>Accredited to ISO/IEC 17025:2017</p>	<h3>Laing O'Rourke Infrastructure Limited</h3> <p>Issue No: 056 Issue date: 20 October 2021</p>	
	<p>Bridge Place Anchor Boulevard Admirals Park Dartford Kent DA2 6SN</p>	<p>Contact: Mr M Newman Tel: +44 (0)7796 996854 E-Mail: mnewman@laingorourke.com Website: www.laingorourke.com</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

Laing O'Rourke Infrastructure Limited is accredited for a flexible scope that enables them to establish site laboratories to conduct the activities detailed below, in accordance with their documented in-house procedure: LAB/FLSC (Note: NCL = No Current Location)

Current locations covered by the scope of accreditation:

Location details	Activity	Location code
<p>Address: Laing O'Rourke Materials Technology Centre Purfleet Works London Road West Thurrock Grays Essex RM20 3NL</p> <p>Local Contact: Patrick Ahearne Email: pahearne@laingorourke.com Tel: 07876 392632 Martin Osborne Email: MOsborne@laingorourke.com Tel: 07649 406973</p> <p>Mark Newman mnewman@laingorourke.com Tel: 07796 996854</p>	<p>CONSTRUCTION Aggregates Concrete - fresh Concrete - hardened Soils</p>	MTC
<p>Address: Laing O'Rourke Infrastructure Site Laboratory Hinkley Point C c/o BYLOR Project Office Wick Moor Drive Somerset TA5 1UF</p> <p>Local Contact: Andrew Trickett-Bell Email: atbell@laingorourke.com Tel: 07384 914336</p> <p>Mark Newman mnewman@laingorourke.com Tel: 07796 996854</p>	<p>CONSTRUCTION Aggregates Concrete - fresh Concrete - hardened</p>	HPC
<p>Address: Laing O'Rourke Infrastructure East West Rail Site Laboratory Compound B6 Bletchley Road Newton Longville Milton Keynes MK17 0AA</p> <p>Local Contact: Steven McCluskey Email: StMccluskey@laingorourke.com Tel: 07824 088115</p> <p>Mark Newman mnewman@laingorourke.com Tel: 07796 996854</p>	<p>CONSTRUCTION Aggregates Concrete - fresh Concrete - hardened Soils for civil engineering purposes Geotechnical Investigation and Testing - Laboratory testing of soil</p>	EWR



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Site activities performed away from the location listed above:

Location details	Activity	Location code	Location details
Address: Laing O'Rourke Materials Technology Centre Purfleet Works London Road West Thurrock Grays Essex RM20 3NL	Local Contact: Patrick Ahearne Email: pahearne@laingorourke.com Tel: 07876 392632 Martin Osborne Email: MOsborne@laingorourke.com Tel: 07649 406973 Mark Newman mnewman@laingorourke.com Tel: 07796 996854	CONSTRUCTION Aggregates Concrete Soils	MTC(S)
Address: Laing O'Rourke Infrastructure Site Laboratory Hinkley Point C c/o BYLOR Project Office Wick Moor Drive Somerset TA5 1UD	Local Contact: Andrew Trickett-Bell Email: atbell@laingorourke.com Tel: 07384 914336 Mark Newman mnewman@laingorourke.com Tel: 07796 996854	CONSTRUCTION Aggregates Concrete Soils	HPC(S)
Address: Laing O'Rourke Infrastructure East West Rail Site Laboratory Compound B6 Bletchley Road Newton Longville Milton Keynes MK17 0AA	Local Contact: Steven McCluskey Email: StMccluskey@laingorourke.com Tel: 07824 088115 Mark Newman mnewman@laingorourke.com Tel: 07796 996854	CONSTRUCTION Aggregates Concrete - fresh Concrete - hardened Soils for civil engineering purposes Geotechnical Investigation and Testing - Laboratory testing of soil	EWR (S)



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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
AGGREGATE	Sampling - from conical stockpiles	BS EN 932-1:1997 Annex C	MTC(S); HPC(S); EWR(S)
	Particle size distribution - sieving method	BS EN 933-1:2012	MTC; HPC; EWR
	Methods of reducing laboratory samples - using a rifle box - reduction by quartering	BS EN 932-2:1999	MTC; HPC; EWR
	Flakiness index	BS EN 933-3:2012	MTC; HPC
	Assessment of Fines - Methylene Blue Test	BS EN 933-9-2009 + A1:2013	MTC; HPC
	Water content - drying in a ventilated oven	BS EN 1097-5:2008	MTC; HPC; EWR
CONCRETE - fresh	Sampling - composite sample - spot sample	BS EN 12350-1:2019	MTC(S); HPC(S); EWR(S)
	Slump	BS EN 12350-2:2019	MTC(S); HPC(S); EWR(S)
	Flow	BS EN 12350-5:2019	MTC(S); HPC(S); EWR(S)
	Air content	BS EN 12350-7:2019	MTC(S); HPC(S); (EWR(S)
	Slump flow test	BS EN 12350-8:2019	MTC; MTC(S) HPC; HPC(S)
	L box test	BS EN 12350-10:2010	MTC; MTC(S)



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
CONCRETE – fresh (cont'd)	Making test cubes and curing	BS EN 12390-2:2019	MTC; HPC; EWR
	Making test beams and curing	BS EN 12390-2:2019	MTC
	Time of setting for concrete mixtures	ASTM C403 – 16	MTC
	Bleeding of Concrete	ASTM C232 – 20	MTC
CONCRETE - hardened	Shape and dimensions	BS EN 12390-1: 2021	MTC; HPC; EWR
	Compressive strength of cubes - including curing	BS EN 12390-3:2019 BS EN 12390-2:2019	MTC; HPC; EWR
	Flexural strength of beams - including curing	BS EN 12390-5:2019 BS EN 12390-2:2019	MTC
	Density	BS EN 12390-7:2019	MTC; HPC; EWR
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	EWR
	Liquid limit - cone penetrometer (definitive method) - cone penetrometer (one point)	BS 1377-2:1990	NCL
	Plastic limit	BS 1377-2:1990	EWR
	Plasticity index	BS 1377-2:1990	NCL
	Particle size distribution - wet sieving	BS 1377-2:1990	EWR
	Particle size distribution - dry sieving	BS 1377-2:1990	EWR



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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)	Dry density/moisture content relationship (2,5 kg rammer)	BS 1377-4:1990	EWR
	Dry density/moisture content relationship (4,5 kg rammer)	BS 1377-4:1990	EWR
	Dry density/moisture content relationship (vibrating hammer)	BS 1377-4:1990	EWR
	Moisture condition value - Natural moisture content	BS 1377-4:1990	EWR
	In-situ density - core cutter method	BS 1377-9:1990	EWR(S)
	In-situ density - sand replacement method (large pouring cylinder)	BS 1377-9:1990	HPC(S); EWR(S)
	Determination of the vertical deformation and strength characteristics of soil by the plate loading test	BS 1377-9:1990	MTC(S); EWR(S)
	Uniformity coefficient	MCHW volume 1 1998 Table 6/1 (foot note 5)	EWR
	Sampling earthwork materials	Documented In-House Method No TP01	EWR(S)
	Dynamic Cone Penetrometer (DCP values)	Documented in-house procedure TP 35	MTC(S); HPC(S); EWR(S)
	Calculation of the CBR value using the Dynamic Cone Penetration (DCP) apparatus	IAN73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundation (Draft HD25) - withdrawn	MTC(S); HPC(S); EWR(S)
Calculation of CBR Values using DCP values	CS 229 Data for Pavement Assessment (formerly HD29/08) Rev.0 (TRRL Equation) / MCHW Vol.1 Series 800 Cl.882.09 Equation 8/1	MTC(S); HPC(S); EWR(S)	



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SOILS for civil engineering purposes (cont'd)	Calculation of CBR Values using DCP values	TRRL Oversees Road Note 18 Appendix F Fig.F3 Option 1 (Kleyn & Van Heerden Equation)	MTC(S); HPC(S); EWR(S)
	Calculation of CBR Values using DCP values	TRL Project report PR/INT/278/04 (S Done & P Samuel)	MTC(S); HPC(S); EWR(S)
	Determination of Equivalent CBR values to IAN 73/06 Rev.1 using BS1377-9:1990 Plate Bearing Method	IAN 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (Draft HD25) – withdrawn	MTC(S); EWR(S)
GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil	Water content	BS EN ISO 17892-1:2014	EWR
END			