Schedule of Accreditation

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Accredited to ISO/IEC 17025:2017

Murray Rix (Northern) Ltd

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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 Andrew House Hadfield Street Dukinfield SK16 4QX	**Local contact** Mr S Hutchings	Testing: Aggregates - mechanical & physical tests Bituminous mixtures - physical tests Concrete - mechanical & physical tests Soils - physical tests	Laboratory

Site activities performed away from the locations listed above:

Location details		Activity	Location code
All locations suitable for the activities listed	**Local contact** Mr S Hutchings	Sampling: Aggregates Testing: Soils - physical tests	Site

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 Clause 8.8	Site
	Ten percent fines value – dry - particle size 10mm and greater	BS 812:Part 111:1990	Laboratory
	Ten percent fines value – soaked - particle size 10mm and greater	BS 812:Part 111:1990	Laboratory
	Particle size distribution - sieving method	BS EN 933-1:2012	Laboratory
	Classification – constituents of recycled aggregate	BS EN 933-11:2009	Laboratory
	Resistance to fragmentation by the Los Angeles Method	BS EN 1097-2:2020	Laboratory
	Water content - drying in a ventilated oven	BS EN 1097-5:2008	Laboratory
BITUMINOUS MIXTURES for roads and other paved areas	Soluble binder content by recovery, using bottle rotation machine, bucket centrifuge type 1 and volume calculation	BS EN 12697-1:2020	Laboratory
	Particle size distribution	BS EN 12697-2: 2024	Laboratory
	Maximum density - volumetric procedure	BS EN 12697-5:2018	Laboratory
	Bulk density - dry - saturated surface dry	BS EN 12697-6:2020	Laboratory
	Determination of the thickness of bituminous pavements	BS EN 12697-36:2022	Laboratory

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
CONCRETE - hardened	Compressive strength of cubes - including curing	BS EN 12390-3:2019 BS EN 12390-1:2021 BS EN 12390-2:2019	Laboratory
	Density	BS EN 12390-7:2019	Laboratory
	Cored specimens - examining and testing in compression	BS EN 12504-1:2019	Laboratory
SOILS for civil engineering purposes	Water Content - oven drying method	BS 1377:Part 2:2022 BS 1377:Part 2:1990	Laboratory
	Liquid limit - cone penetrometer	BS 1377:Part 2:2022 BS 1377:Part 2:1990	Laboratory
	Liquid limit - cone penetrometer - one point	BS 1377:Part 2:2022 BS 1377:Part 2:1990	Laboratory
	Plastic limit	BS 1377:Part 2:2022 BS 1377:Part 2:1990	Laboratory
	Plasticity index and liquidity index	BS 1377:Part 2:2022 BS 1377:Part 2:1990	Laboratory
	Particle size distribution - wet sieving	BS 1377:Part 2:2022 BS 1377:Part 2:1990	Laboratory
	Particle size distribution - dry sieving	BS 1377:Part 2:2022 BS 1377:Part 2:1990	Laboratory
	Uniformity coefficient	Specification for Highway Works table 6/1 footnote 5	Laboratory
	Particle Density	BS 1377-2:2022 BS 1377-2:1990	Laboratory
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377:Part 2:2022 BS 1377:Part 4:1990	Laboratory
	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377:Part 2:2022 BS 1377:Part 4:1990	Laboratory
	Dry density/moisture content relationship (vibrating hammer)	BS 1377:Part 2:2022 BS 1377:Part 4:1990	Laboratory

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)	Moisture condition value (MCV) - natural moisture content	BS 1377:Part 2:2022 BS 1377:Part 4:1990	Laboratory Site
	California Bearing Ratio (CBR)	BS 1377:Part 2:2022 BS 1377:Part 4:1990	Laboratory
	Measurement of swelling of soaked CBR specimen	BS 1377- 2:2022 BS 1377:Part 4:1990	Laboratory
	Permeability in a triaxial cell	BS 1377-2:2022 BS1377-6: 1990	Laboratory
	Determination of the permeability of clayey soils in a triaxial cell using the accelerated permeability test	Environment Agency R & D Technical Report P1-398/TR/2:January 2003	Laboratory
	One-dimensional consolidation properties	BS 1377-2:2022 BS 1377-5:1990	Laboratory
	Unconsolidated undrained triaxial test	BS 1377-2:2022 BS 1377-7:1990	Laboratory
	Determination of Swelling Pressure	BS 1377-2:2022	Laboratory
	Undrained shear strength in triaxial compression with multistage loading and without measurement of pore pressure	BS 1377-7:1990	Laboratory
	In-situ density - core cutter method	BS 1377:Part 9:1990	Site
	In-situ density - sand replacement method (small pouring cylinder) (large pouring cylinder)	BS 1377:Part 9:1990	Site
	In-situ bulk density - nuclear method - compliance tests	BS 1377:Part 9:1990	Site
	In-situ bulk density - nuclear method - absolute tests	BS 1377:Part 9:1990	Site
	In-situ bulk density - nuclear method - comparative tests	BS 1377:Part 9:1990	Site

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)	In-situ moisture density - nuclear method - compliance tests	BS 1377:Part 9:1990	Site
	In-situ moisture density - nuclear method -comparative tests	BS 1377:Part 9:1990	Site
	In-situ moisture density - nuclear method - absolute tests	BS 1377:Part 9:1990	Site
	Vertical deformation and strength characteristics by the plate loading test	BS 1377:Part 9:1990	Site
	Calculation of Equivalent CBR value using the plate bearing test	Design Manual for Roads and Bridges: Volume 7: Pavement Design and Maintenance - Foundations - IAN 73/06 Rev 1 (2009)	Site
	Dynamic cone penetrometer	Design Manual for Roads and Bridge, CS229 Data for Pavement Assessment, Rev 0: 2020	Site
GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil	Water content	BS EN ISO 17892-1:2014+A1:2022	Laboratory
	Bulk density - linear measurement method	BS EN ISO 17892-2:2014	Laboratory
	Determination of particle size distribution -sieving method	BS EN ISO 17892-4:2016	Laboratory
	Incremental loading oedometer test	BS EN ISO 17892-5:2017	Laboratory
	Unconsolidated undrained triaxial test	BS EN ISO 17892-8:2018	Laboratory
	Determination of liquid limit by the fall cone method	BS EN ISO 17892-12:2018+A2:2022	Laboratory
	Determination of plastic limit	BS EN ISO 17892-12:2018+A2:2022	Laboratory

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil (cont'd)	Plasticity Index and Liquidity Index	BS EN ISO 17892-12:2018+A2:2022	Laboratory
	Permeability in the triaxial cell	BS EN ISO 17892-11 2019	Laboratory
UNBOUND and HYDRAULICALLY BOUND MIXTURES	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2021	Laboratory
	Moisture condition value (MCV) - natural moisture content	BS EN 13286-46:2003	Laboratory
	California bearing ratio	BS EN 13286-47:2021	Laboratory
END			