



## CERTIFICATE OF ACCREDITATION

*In terms of section 22(2) (b) of the Accreditation for Conformity Assessment, Calibration and Good Laboratory Practice Act, 2006 (Act 19 of 2006), read with sections 23(1), (2) and (3) of the said Act, I hereby certify that:-*

**MATROLAB GROUP (PTY) LTD**  
**Co. Reg. No.: 2003/029180/07**  
**DURBAN**

Facility Accreditation Number: **T0239**

is a South African National Accreditation System accredited Testing laboratory provided that all SANAS conditions and requirements are complied with

This certificate is valid as per the scope as stated in the accompanying schedule of accreditation Annexure "A", bearing the above accreditation number for

### CIVIL ENGINEERING TESTING

The facility is accredited in accordance with the recognised International Standard

**ISO/IEC 17025:2005**

The accreditation demonstrates technical competency for a defined scope and the operation of a laboratory quality management system

While this certificate remains valid, the Accredited Facility named above is authorised to use the relevant SANAS accreditation symbol to issue facility reports and/or certificates



  
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**Mr R Josias**  
**Chief Executive Officer**

**Effective Date: 30 July 2014**  
**Certificate Expires: 29 July 2019**

## ANNEXURE A

## SCHEDULE OF ACCREDITATION

Facility Number: T0239

<p><b>Permanent Address of Laboratory:</b> Matrolab Group (Pty) Ltd Unit 7 Pennylane Park 64 Ebonyfield avenue Springfield Park Durban</p> <p><b>Postal Address:</b> P O Box 74663 Rochdale Park 4034</p> <p>Tel: (031) 579-1220 Fax: (031) 579-1344 E-mail: <a href="mailto:lawrencecg@matrolab.co.za">lawrencecg@matrolab.co.za</a></p>	<p><b>Management Signatory:</b> Mr SL Govender</p> <p><b>Technical Signatories:</b> Mr SL Govender(All) Mr R Bhikam(All) Mr RD Ramdeen (TMH1 A10(b), TMH1 D1, TMH1 D3, SANS 5861-3, SANS 5862-1, SANS 5863) Mr H Newal (TMH1 A10(b), TMH1 D1, TMH1 D3, SANS 5861-3, SANS 5862-1, SANS 5863)</p> <p><b>Nominated Representative:</b> Mr SL Govender</p> <p>Issue No.: 12 Date of Issue: 19 September 2014 Expiry Date: 29 July 2019</p>	
Materials / Products Tested	Type of Tests / Properties Measured, Range of Measurement	Standard Specifications, Equipment / Technique Used
SOILS	<p>The wet preparation and sieve analysis of gravel sand and soil samples</p> <p>The dry preparation and sieve analysis of gravel sand and soil samples</p> <p>The determination of the liquid limit of soil by means of the flow curve method</p> <p>The determination of the plastic limit and plasticity index of soil</p> <p>The determination of the linear shrinkage of soil</p> <p>The determination of the percentage of material passing a 0.075 mm sieve in a soil sample</p> <p>The determination of maximum dry density and optimum moisture content of gravel, soil and sand</p> <p>The determination of california bearing ratio of untreated soils and gravel</p> <p>The determination of california bearing ratio of lime-stabilised soil and gravel</p>	<p>TMH1 A1(a)</p> <p>TMH1 A1(b)</p> <p>TMH1 A2</p> <p>TMH1 A3</p> <p>TMH1 A4</p> <p>TMH1 A5</p> <p>TMH1 A7</p> <p>TMH1 A8</p> <p>TMH1 A9</p>

Original Date of Accreditation: 30 July 2004

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**Field Manager**

## ANNEXURE A

Facility No.: T0239  
Date of Issue: 19 September 2014  
Expiry Date: 29 July 2019

Materials / Products Tested	Type of Tests / Properties Measured, Range of Measurement	Standard Specifications, Equipment / Technique Used
<b>AGGREGATES</b>	The determination of in-place dry density of soil or gravel by the sand replacement method	TMH1 A10(a)
	The determination of in-place dry density and moisture content of soil and gravel by nuclear method	TMH1 A10(b)
	The determination of unconfined compressive strength of stabilised soil, gravel and sands	TMH1 A14 Appendix A14
	The determination of the cement or lime content of stabilised materials by means of back titration (acid base) method	TMH1 A15(d)
	Tentative method for the determination of the indirect tensile strength of stabilised material	TMH1 A 16T
	The determination of the moisture content of materials	TMH1 A17
	The wet-dry durability test for cement-treated materials	TMH 1 A19 Appendix A19
	Particles size analysis of soil (hydrometer analysis)	ASTM D422
	The determination of the aggregates crushing value (wet/dry)	TMH1 B1
	The determination of the 10% fines aggregate crushing value (wet/dry)	TMH1 B2
	The determination of the flakiness index of a coarse aggregate	TMH1 B3
	The sieve analysis of aggregates, including the determination of the bulk density of coarse and fine aggregate	TMH1 B4 TMH1 B9
	Determination of the material passing the 0.425 and 0.075 mm sieves	TMH1 B13
	The determination of dry bulk density, apparent relative density and water absorption of aggregate retained on a 4.75 mm sieve	TMH1 B14
	The determination of dry bulk density, apparent relative density and water absorption of aggregate passing the 4.75mm sieve	TMH1 B15
The determination of average Least dimension of aggregates by direct measurement	TMH 1 B18(a)	
The determination of the sand equivalent of aggregates	SANS 5838/TMH 1 B19	

  
**Field Manager**



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Materials / Products Tested	Type of Tests / Properties Measured, Range of Measurement	Standard Specifications, Equipment / Technique Used
<b>ASPHALT</b>	The determination of the resistant to flow of a cylindrical briquette of a bituminous mixture by means of marshall apparatus	TMH1 C2 C2 Appendix
	The determination of bulk relative density of a compacted bituminous mixture and the calculation of Voids	TMH1 C3
	<b>The determination of</b>	TMH1 C4
	<ul style="list-style-type: none"> <li>a) The maximum theoretical relative density of asphalt mixes (Rice methods)</li> <li>b) The quantity of bituminous binder absorbed by the aggregate</li> </ul>	
<b>CONCRETE</b>	The determination of binder content of a bituminous mixture	TMH1 C7a
	The making, curing and compressive strength determination of concrete cubes	TMH1 D1
	The determination of the slump of freshly mixed concrete	TMH1 D3
	Concrete test-making & curing of test specimens	SANS 5861-3
	Concrete test-consistency of freshly mixed concrete slump test	SANS 5862-1
	Concrete-tests-compressive strength of hardened concrete	SANS 5863
<b>SAMPLING</b>	Concrete tests-the drilling, preparation and testing for compressive strength of cores taken from hardened concrete	SABS 865
	Sampling of road pavement layers	TMH5, MC1
	Sampling of asphalt and concrete from a completed layers or structure	TMH5, MC2
	Division of a sample using riffles	TMH5, MD1
	Division of a sample by quartering	TMH5, MD2
	Sampling from a sampling pit in natural gravel, soil and sand	TMH5, MA2
	Sampling of stockpiles	TMH5, MB1
	Sampling of pre-mixed asphalt	TMH5, MR7
	Sampling of freshly mixed concrete	TMH5, MB9
	Sampling of treated pavement layers to determine content and distribution of the stabilisers	TMH5MB10

Original Date of Accreditation: 03 July 2004

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**Field Manager**