

PERMANENT DEFORMATION TEST REPORT FOR GRANULAR UNBOUND PAVEMENT MATERIALS TEST METHOD: AS1289.6.8.1

Project:	Polycorn Trials, Rosewood - Marburg Rd				
Client Details:	DTMR, Metropolitan Region, 183 Wharf St, Spring Hill, Qld, 4006				
Project No:	FG5903	Sample No:	S10-325.A1R2	Test Date:	12-Oct-2010

Sample Details

Material Type	Base	Material Source	Rosewood - Marburg Rd
Sample Location	TP1,3,4 & 5 combined	Sample Details	NA
Sampled By	Client	Date Sampled	18-May-2010
Sample OMC (%)	12.5	Sample MDD (t/m³)	2.043

Placement Data

Specified Degree of Saturation (%)	65	Specified Density Ratio (%)	100.0
As compacted Degree of Saturation (%)	68	As compacted Density Ratio (%)	99.6
Specified Moisture Ratio (%)	69.8	As compacted Dry Density (t/m³)	2.036
As compacted Moisture Ratio (%)	73.7	As compacted Moisture Content (%)	9.21
Compaction Method	Q110E	%Sample >19mm	Nil
Number of Layers	6	Testing Apparatus	UTM 14P


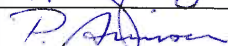
Nominal Stress Levels

Total Vertical Stress (kPa)	750	Confining Stress (kPa)	125
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Sample Loading

Cycle No.	Resilient Modulus (MPa)	Permanent Strain (%)	Resilient Strain (%)	Pore Pressure (kPa)
1	190	0.34	0.34	8
49	210	0.40	0.30	11
505	230	0.65	0.27	15
1009	240	0.70	0.26	15
2521	250	0.76	0.26	16
5017	250	0.80	0.25	16
12505	250	0.85	0.25	16
25009	250	0.90	0.25	15
37513	240	0.92	0.26	13
50017	240	0.95	0.26	12
75025	240	0.98	0.26	9
77446	240	0.98	0.26	9

Variations to Test Procedure:	Specimen shrouded with two membranes for the test.
Remarks:	Specimen remoulded at 65% DOS with no Polycorn added and no curing time.
After test Moisture Content - 9.1%. After test DOS - 67%.	
Test performed undrained with pore pressure measured at the base of the specimen. Initial B value = 0.07.	
Target no. of cycles = 100000, but test terminated at 77446 cycles due to power outage.	

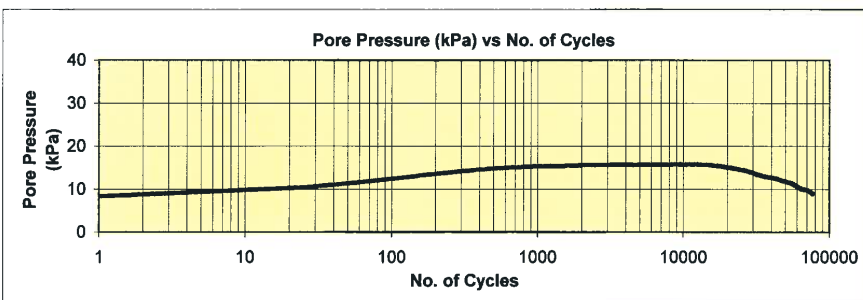
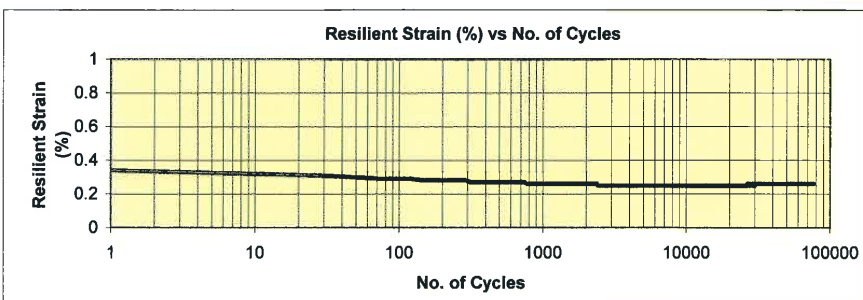
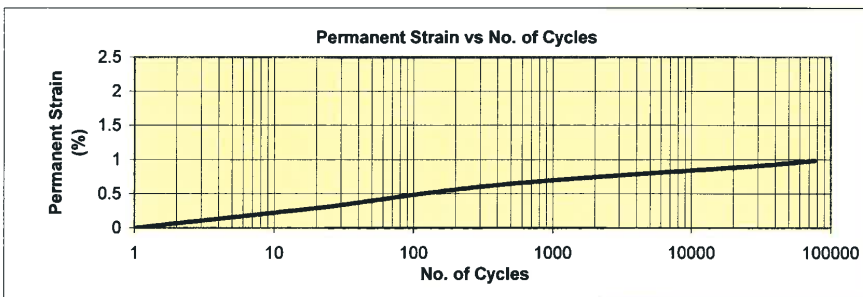
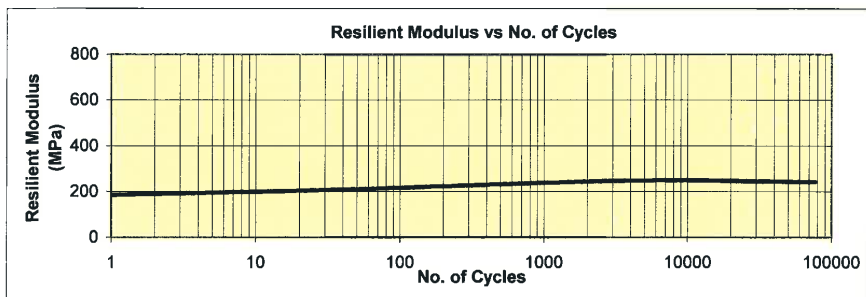
Report Number:	FG5903/S10-325.A1R2/AS1289.6.8.1
Date Reported:	28-Oct-2010
Checked By:	
Authorising Officer:	

P. Simson - Senior Technologist



**PERMANENT DEFORMATION TEST REPORT
FOR GRANULAR UNBOUND PAVEMENT MATERIALS
TEST METHOD: AS 1289.6.8.1**

PROJECT: Polycom Trials, Rosewood - Marburg Rd **SAMPLE No:** S10-325.A1R2



Checked By:

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Not Available



BEFORE TEST

AFTER TEST

Remarks:	After test specimen damage as a result of surge in load when power restarted.
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Authorising Officer:	

P. Simson - Senior Technologist

**REPORT on Laboratory Compaction to
Nominated Levels of Dry Density and Moisture Content**

Client: Main Roads Department – Geotechnical Laboratory.

Address: Floor 1, 35 Butterfield Street Herston, Qld 4006.

Job No. 50-007044.E **Project:** Polycom Trials

Sampling Method: - **Senders No.:** -

Sampled By: Client **Lot No.:** -

Material Source: Rosewood – Marburg Rd **Nature of Sample:** Combined Base Material

Sample Location: Trench 1, 3, 4, & 5 **Date Sampled:** 18/05/2010

Test Methods: Q110E – 1991 Laboratory compaction to nominated levels of Dry Density and Moisture Content

TEST RESULTS

Sample No.	S10/325 (A1R2)	Target D.O.S. (%)	65
Nominated Moisture Content (%)	8.73	Nominated (%) of OMC	69.8
Achieved Moisture Content (%)	9.21	Achieved (%) of OMC	73.7
Nominated Dry Density (t/m ³)	2.043	Nominated (%) of MDD	100.0
Achieved Dry Density (t/m ³)	2.036	Achieved (%) of MDD	99.6

Variation(s) to Test Method: -

Remark(s): - Curing: Uncured & Untreated

S10/325 MDD: 2.043t/m³, OMC: 12.5%



Accreditation Number: 2302
Accredited for compliance
with ISO/IEC 17025

This document is issued in
accordance with NATA's
accreditation requirements.

Checked By:

Anthony Neary

Signatory:

Anthony Neary
(Senior Materials Technician Soils & Aggregate)

Report No.: 27282

Date: 29/10/2010