Appendix D2

Geotechnical investigations:

RMS Factual Geotechnical Investigation Report



Job No:

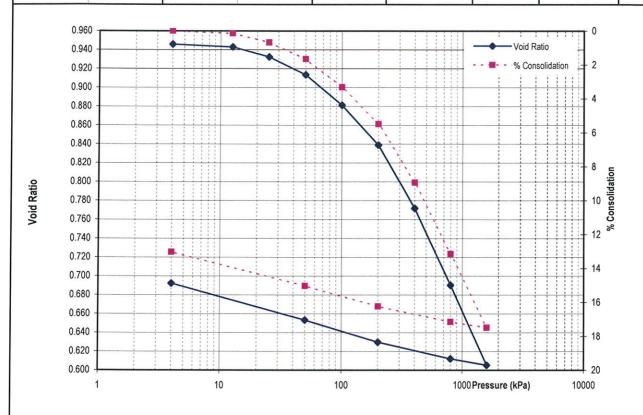
INFOLCOV00959AA

Consolidation Test

Sheet 1 of 1

		Control of the Contro			
Client:	ROADS AND MARITIME SI	Office:	SYDNEY		
Principal:	ROADS AND MARITIME SI	Date:	21/5/2012		
Project:	BERRY BYPASS			Ву:	GKC
Location:	PRINCES HIGHWAY	Checked:	GKC		
Test Procedure:	AS1289 6.6.1				
Borehole:	B5	Depth:	1.05 to 1.55 m	Report No:	IOLT 5559
Sample No.	B5	Laboratory No's	LCOV12S-00422	Sample Type:	Undisturbed
Material Description	n: (SC) CLAYEY SAN	ND - fine to coarse, m	nottled brown, fines of high plasticity.		

Initial Dry Density (t/m²): Soil Particle Density (t/m³): Pressure Range (kPa)		Initial Moisture Content (%):		35.1	.1 Initial Degree of Saturation (%):		97.6
		Final Moisture Conte	ent (%):	28.0	Initial Specimen Height (mm):		20.023 C _α
		Void Ratio		C _v	m _v	C _c	
То	at start of load increment	at end of load increment	(%)	m²/year	m²/kN		
12.5	0.946	0.943	0.150	1.26538	0.00018	0.00589	
25	0.943	0.932	0.689	1.82883	0.00043	0.03486	
50	0.932	0.913	1.663	5.08850	0.00039	0.06295	
100	0.913	0.881	3.321	8.00377	0.00034	0.10718	
200	0.881	0.839	5.494	5.23385	0.00022	0.14043	
400	0.839	0.772	8.945	7.52972	0.00018	0.22307	
800	0.772	0.690	13.145	5.37089	0.00012	0.27149	
1600	0.690	0.605	17.500	5.28685	0.00006	0.28150	
800	0.605	0.612	17.155				
200	0.612	0.630	16.246				
50	0.630	0.653	15.043				
4	0.653	0.692	13.035				1
	To 12.5 25 50 100 200 400 800 1600 800 200 50	To at start of load increment 12.5 0.946 25 0.943 50 0.932 100 0.913 200 0.881 400 0.839 800 0.772 1600 0.690 800 0.605 200 0.612 50 0.630	Void Ratio To at start of load increment at end of load increment 12.5 0.946 0.943 0.932 0.943 0.932 0.913 100 0.913 0.881 0.839 0.772 0.690 0.605 0.690 0.605 0.612 0.630 0.653 0.653 0.653 0.653 0.653 0.653 0.653 0.653 0.653 0.653 0.653 0.655 0.653 0.653 0.653 0.653 0.653 0.653 0.653 0.653 0.655 0.653 0.653 0.653 0.653 0.653 0.653 0.653 0.653 0.653 0.653 0.653 0.653 0.653 0.653 0.653 0.655 0.653 0.653 0.653 0.653 0.653 0.653 0.653 0.653 0.653 0.653 0.653 0.653 0.653 0.653 0.653 0.655 0.653	Void Ratio Consolidation	To	To	To





Lane Cove West Laboratory - Accreditation No. 431

Garry K Collins

GLEN-CONS RPT-001-2010

Initial dial gauge height = 12.754 mm Final dial gauge height = 12.722 mm

mins

8.2

SAMPLE NO: LCOV12S-00422

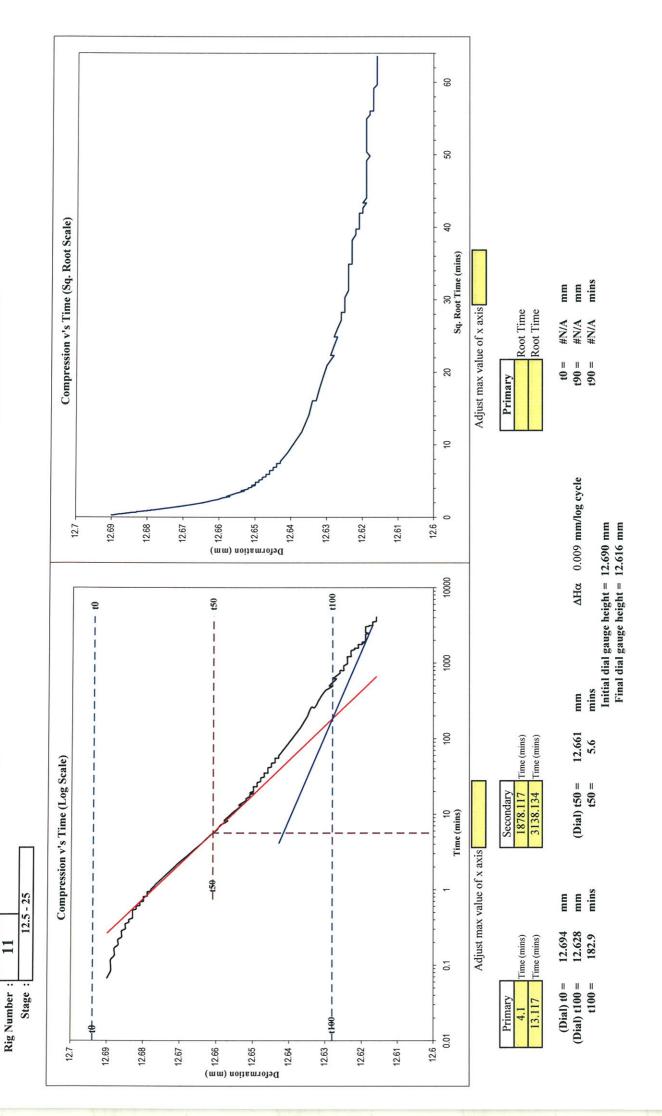
Stage 1

13 kPa

Stage Load : Rig Number: 4.0 to 12.5

Stage 2

25 kPa



Stage 3

50 kPa

Stage Load : Rig Number : Stage :

Stage 4

100 kPa

Stage Load : Rig Number : Stage :

Deformation (mm)

SAMPLE NO: LCOV12S-00422

Stage 5

200 kPa

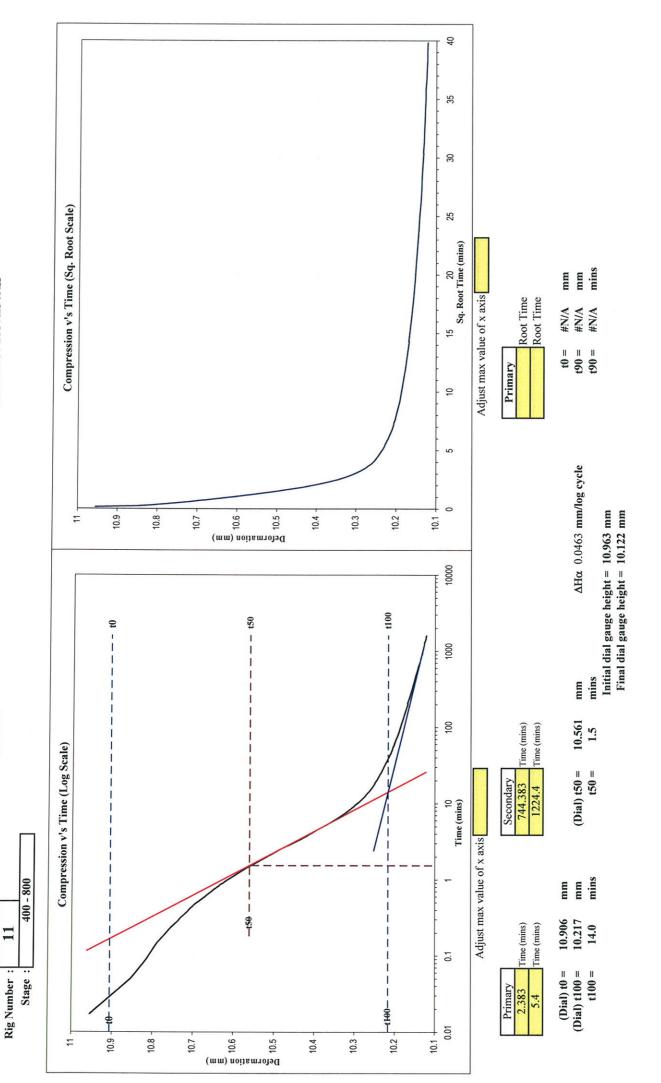
Stage Load:

Stage 6

400 kPa

Stage Load :
Rig Number :
Stage :

800 kPa



Stage 8

800 - 1600

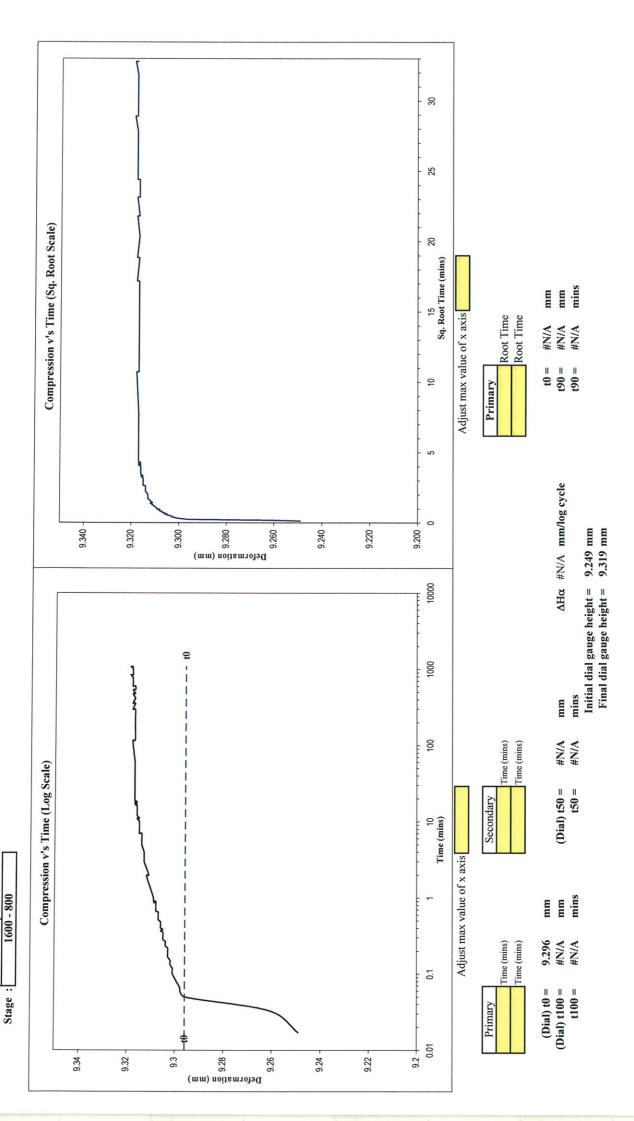
1600 kPa

Stage Load :
Rig Number :
Stage :

Stage 9 (Rebound)

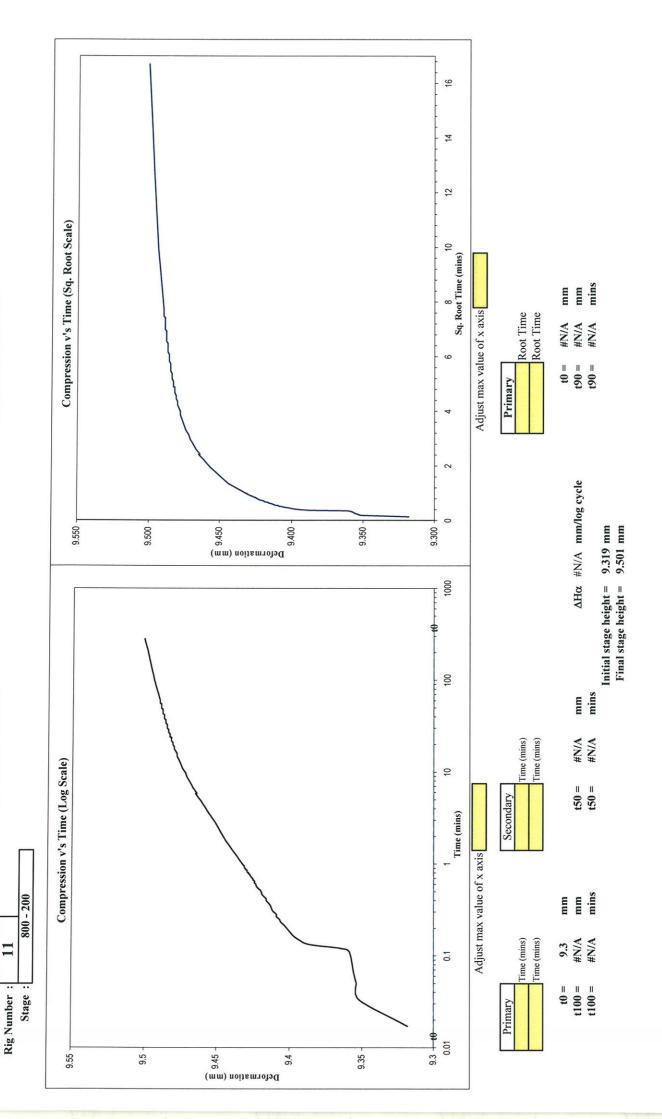
800 kPa

Stage Load: Rig Number:

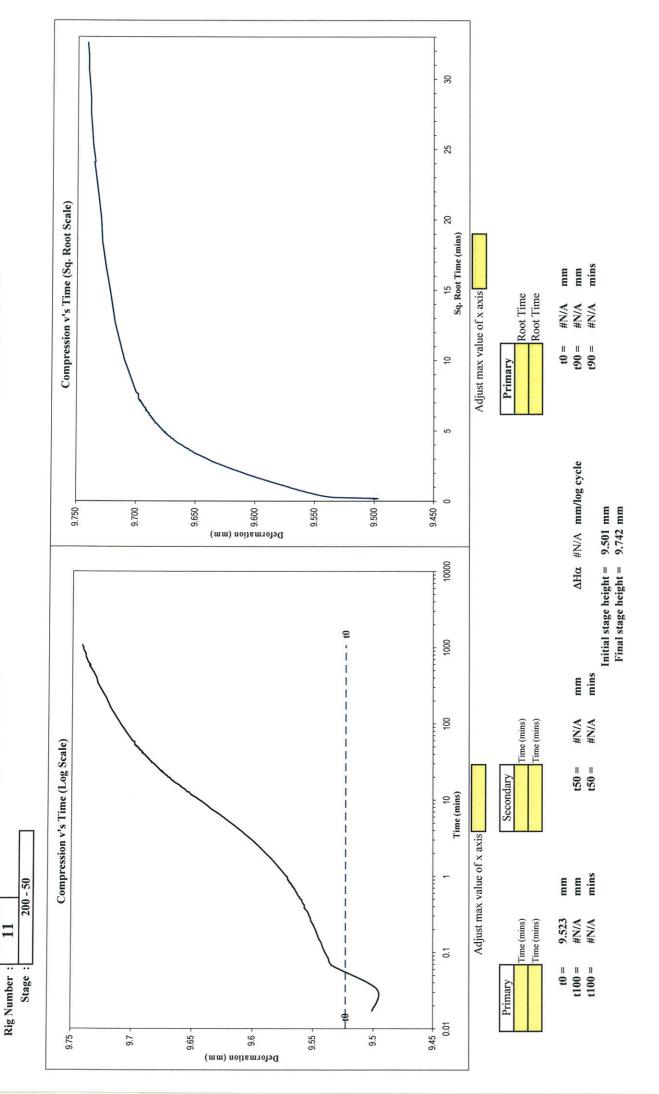


Stage 10 (Rebound)

200 kPa



50 kPa



Stage 12 (Rebound)

