

Appendix B - Laboratory Test Reports

California Bearing Ratio Test Report

Client: Coffey Services Australia Pty Ltd (Wollongong)
118 Auburn Street
Wollongong NSW 2500

Principal: MLS
Project No.: 754-SNOW00024AA
Project Name: 754-WOLGE200229 - UoW - MLS Building
Lot No.: TRN:

Accredited for compliance with ISO/IEC 17025.



The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

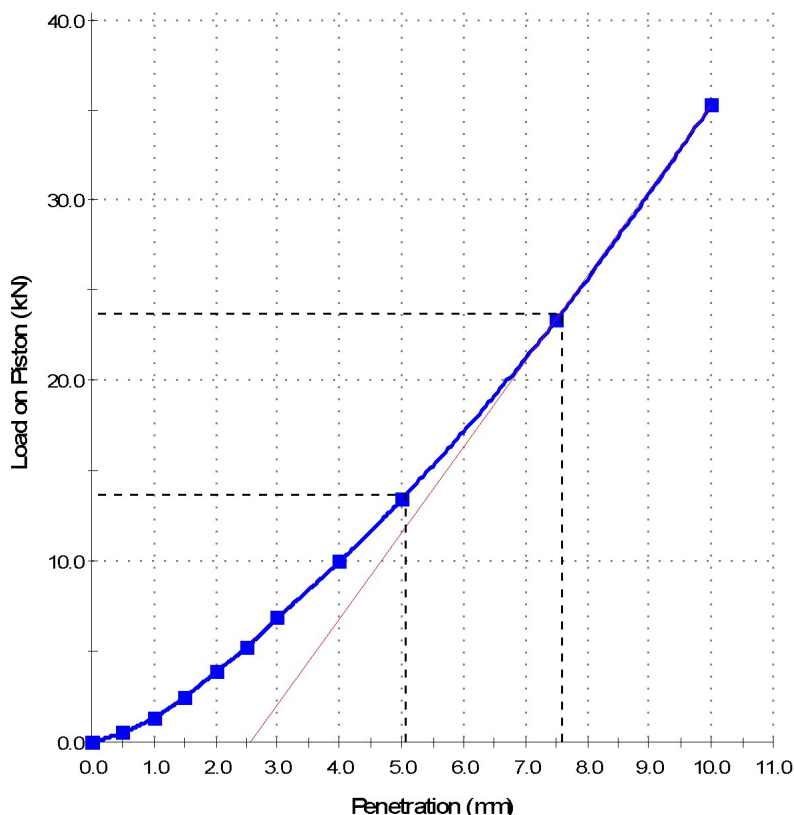
Approved Signatory: Warren O'Connor
(Laboratory Manager)
NATA Accredited Laboratory Number: 431
Date of Issue: 6/02/2017

Sample Details

Sample ID: SNOW17S-00147
Date Sampled: 25/01/2017
Date Submitted: 30/01/2017
Date Tested: 4/02/2017
Project Location: Wollongong, NSW.
Sample Location: MLSCBH03, Depth: 0.2-0.5m

Sampling Method: Submitted by client
Material: Refer to Test Pit Logs
Source:
Specification: No Specification

Load vs Penetration



Test Results

AS 1289.6.1.1

CBR At 5.0mm (%): 120
Maximum Dry Density (t/m³): 2.27
Optimum Moisture Content (%): 6.5
Dry Density before Soaking (t/m³): 2.23
Density Ratio before Soaking (%): 98
Moisture Content before Soaking (%): 6.5
Moisture Ratio before Soaking (%): 100
Dry Density after Soaking (t/m³): 2.23
Density Ratio after Soaking (%): 98
Swell (%): 0.0
Moisture Content of Top 30mm (%): 7.7
Moisture Content of Remaining Depth (%): 8.1
Compactive Effort: Standard
Surcharge Mass (kg): 4.50
Period of Soaking (Days): 4
Oversize Material: Excluded
Oversize Material (%): 1.7

Comments

California Bearing Ratio Test Report

Client: Coffey Services Australia Pty Ltd (Wollongong)
118 Auburn Street
Wollongong NSW 2500

Principal: MLS
Project No.: 754-SNOW00024AA
Project Name: 754-WOLGE200229 - UoW - MLS Building
Lot No.: TRN:

Accredited for compliance with ISO/IEC 17025.



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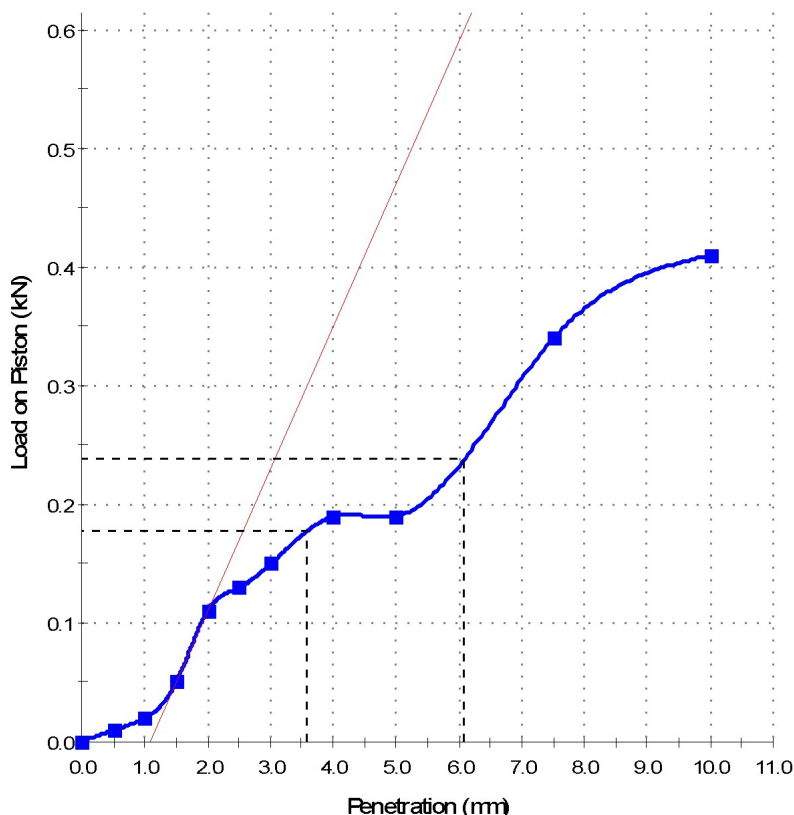
Approved Signatory: Warren O'Connor
(Laboratory Manager)
NATA Accredited Laboratory Number: 431
Date of Issue: 6/02/2017

Sample Details

Sample ID: SNOW17S-00148
Date Sampled: 25/01/2017
Date Submitted: 30/01/2017
Date Tested: 4/02/2017
Project Location: Wollongong, NSW.
Sample Location: MLSCBH03, Depth: 1.2-2.0m

Sampling Method: Submitted by client
Material: Refer to Test Pit Logs
Source:
Specification: No Specification

Load vs Penetration



Test Results

AS 1289.6.1.1

CBR At 2.5mm (%): 1.5
Maximum Dry Density (t/m³): 1.65
Optimum Moisture Content (%): 20.0
Dry Density before Soaking (t/m³): 1.62
Density Ratio before Soaking (%): 98
Moisture Content before Soaking (%): 20.1
Moisture Ratio before Soaking (%): 100
Dry Density after Soaking (t/m³): 1.53
Density Ratio after Soaking (%): 93
Swell (%): 6.0
Moisture Content of Top 30mm (%): 29.8
Moisture Content of Remaining Depth (%): 26.6
Compactive Effort: Standard
Surcharge Mass (kg): 4.50
Period of Soaking (Days): 4
Oversize Material (%): 0.0

Comments

Maximum Dry Density Report

Client: Coffey Services Australia Pty Ltd (Wollongong)
118 Auburn Street
Wollongong NSW 2500

Principal: MLS
Project No.: 754-SNOW00024AA
Project Name: 754-WOLGE200229 - UoW - MLS Building
Lot No.: TRN:



Accredited for compliance with ISO/IEC 17025.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

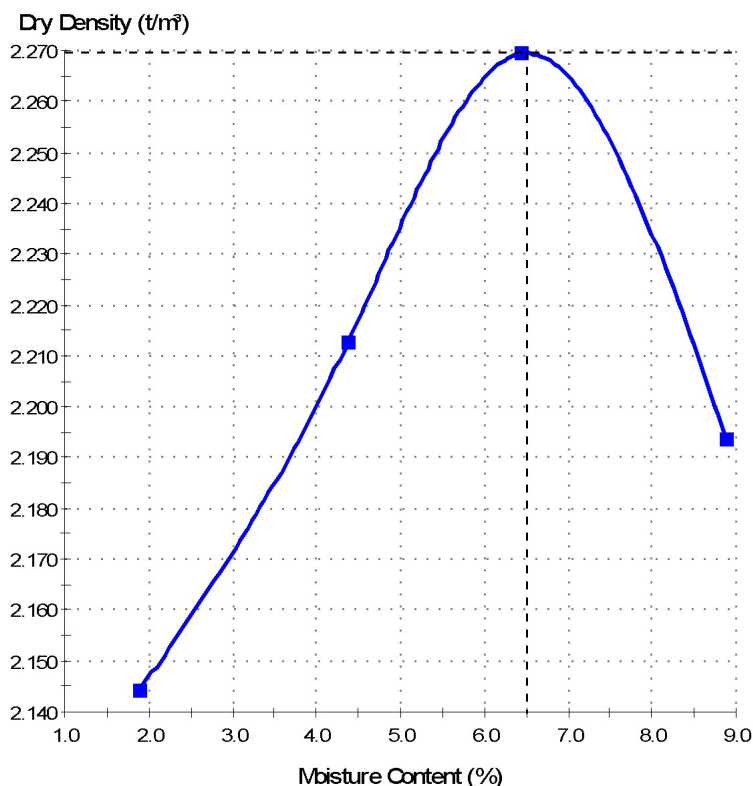
Approved Signatory: Warren O'Connor
(Laboratory Manager)
NATA Accredited Laboratory Number: 431
Date of Issue: 6/02/2017

Sample Details

Sample ID: SNOW17S-00147
Date Sampled: 25/01/2017
Date Submitted: 30/01/2017
Date Tested: 30/01/2017
Project Location: Wollongong, NSW.
Sample Location: MLSCBH03, Depth: 0.2-0.5m

Sampling Method: Submitted by client
Material: Refer to Test Pit Logs
Source:
Specification: No Specification

Dry Density - Moisture Content Relationship



Test Results

AS 1289.5.1.1
Standard MDD (t/m³): 2.27
Standard OMC (%): 6.5

Comments

Maximum Dry Density Report

Client: Coffey Services Australia Pty Ltd (Wollongong)
118 Auburn Street
Wollongong NSW 2500

Principal: MLS
Project No.: 754-SNOW00024AA
Project Name: 754-WOLGE200229 - UoW - MLS Building
Lot No.: TRN:



Accredited for compliance with ISO/IEC 17025.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Approved Signatory: Warren O'Connor
(Laboratory Manager)

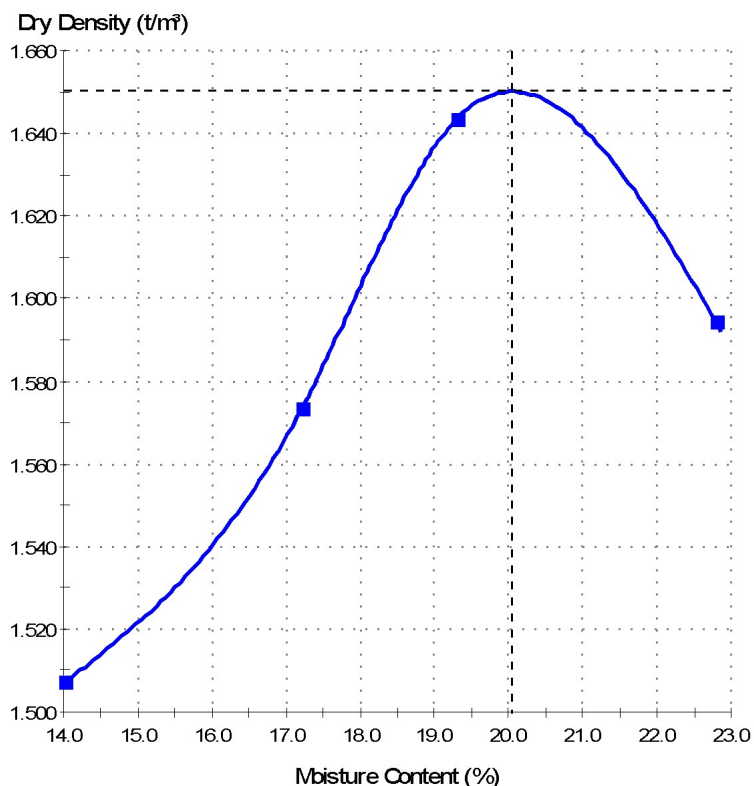
NATA Accredited Laboratory Number: 431
Date of Issue: 6/02/2017

Sample Details

Sample ID: SNOW17S-00148
Date Sampled: 25/01/2017
Date Submitted: 30/01/2017
Date Tested: 30/01/2017
Project Location: Wollongong, NSW.
Sample Location: MLSCBH03, Depth: 1.2-2.0m

Sampling Method: Submitted by client
Material: Refer to Test Pit Logs
Source:
Specification: No Specification

Dry Density - Moisture Content Relationship



Test Results

AS 1289.5.1.1
Standard MDD (t/m³): 1.65
Standard OMC (%): 20.0

Comments



A TETRA TECH COMPANY

South Nowra Laboratory

Coffey Services Australia Pty Ltd
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South Nowra NSW 2541

Phone: +61 2 4429 5000
Fax: +61 2 4429 5099

Report No: SSI:SNOW17S-00149

Issue No: 1

Shrink Swell Index Report

Client: Coffey Services Australia Pty Ltd (Wollongong)
118 Auburn Street
Wollongong NSW 2500

Principal: MLS
Project No.: 754-SNOW00024AA
Project Name: 754-WOLGE200229 - UoW - MLS Building
Lot No.: TRN:

Tests indicated as not accredited are outside the scope of the laboratory's or signatories accreditation.

Dene Hillman
Approved Signatory: Dene Hillman
(Geotechnician)

Date of Issue: 6/02/2017

Sample Details

Sample ID: SNOW17S-00149

Date Sampled: 25/01/2017

Date Submitted: 30/01/2017

Date Tested: 6/02/2017

Project Location: Wollongong. NSW.

Sample Location: MLSCBH01, Depth: 1.2-1.5m

Borehole Number: MLSCBH01

Borehole Depth (m): 1.2-1.5

Sampling Method: Submitted by client

Material: Refer to Test Pit Logs

Source: Site

Swell Test

AS 1289.7.1.1

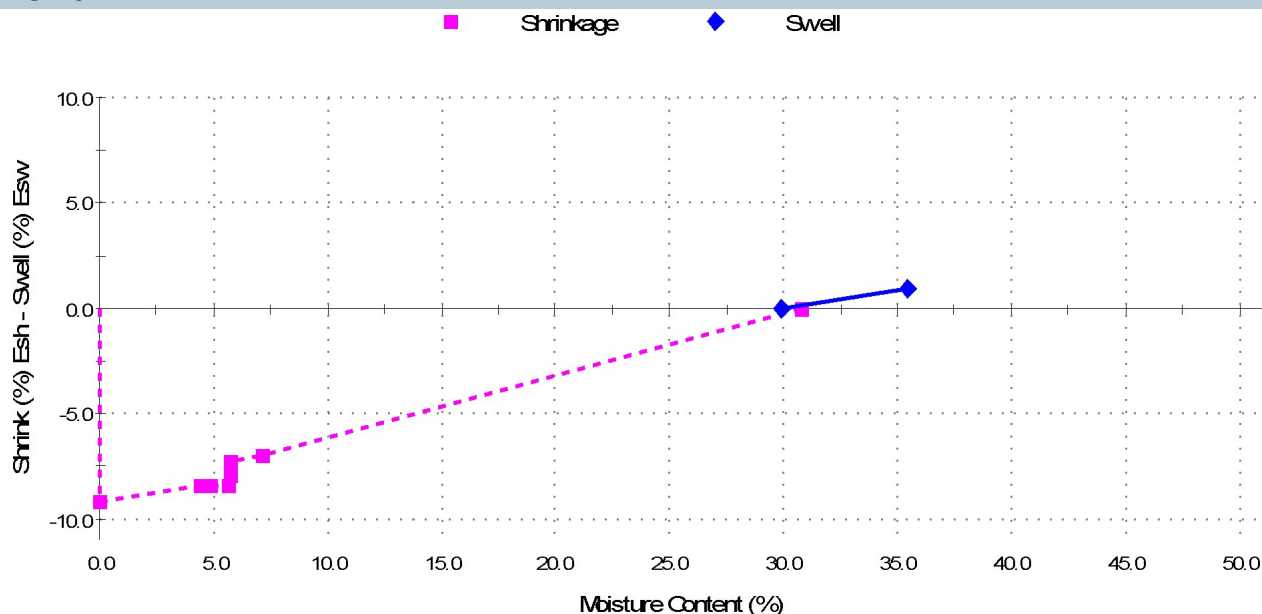
Swell on Saturation (%): 0.9
Moisture Content before (%): 29.9
Moisture Content after (%): 35.4
Est. Unc. Comp. Strength before (kPa):
Est. Unc. Comp. Strength after (kPa):

Shrink Test

AS 1289.7.1.1

Shrink on drying (%): 9.2
Shrinkage Moisture Content (%): 30.8
Est. inert material (%): 3%
Crumbling during shrinkage: Nil
Cracking during shrinkage: Nil

Shrink Swell



Shrink Swell Index - Iss (%): 5.3

Comments