### LEVEL ONE

Reference No.: 2324-086

### **SURVEILLANCE**

### AND INSPECTION REPORT

Carried Out By



PREPARED FOR: -

SYMON BROS CONSTRUCTIONS PTY LTD



# GEOTECHNICAL LABORATORIES PTY LTD ABN 51 102 571 077 14 RAVENHALL WAY RAVENHALL 3023 PH. (03) 8361-9140

### Table of Contents

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### **Appendices**

Appendix A Construction Drawings

Appendix B Daily Field Compaction Summary Results



#### GEOTECHNICAL LABORATORIES PTY LTD ABN 51 102 571 077 14 RAVENHALL WAY RAVENHALL 3023 PH. (03) 8361-9140

Client Name: Symon Bros Constructions Pty Ltd

Project Name: Lucas Estate Stage M1

Date: 21st of April 2022 Author: Mr. Sam Loza

Reference No.: 2324-086

Revision: 0

Project Manager: Mr. Nick Goutzamanis

### 1. Introduction & Scope

At the request of Symon Bros. Constructions Pty Ltd, Geotechnical Laboratories has carried out inspection and testing of the above-mentioned site from the 21<sup>st</sup> of June 2021 to the 13<sup>th</sup> of April 2022 where a residential development is being constructed. Inspection and testing of stripping, material quality and compaction control tests were carried out to comply with the requirements of AS 3798 Appendix B, Level 1.

The following documentation was submitted to Geotechnical Laboratories by Symon Bros. Constructions Pty Ltd and was used to determine compliance of earthworks in conjunction with the requirements of AS 3798 – 2007.

### (1) Fill Layout Plan Drawing No. 18775-207.

General site works involved the placement of fill, using on-site derived clay, to bring the fill region to the required finished levels as indicated on the faceplan drawings.

#### 2. Site Preparation

Site inspections were undertaken on the 16<sup>th</sup> of June 2021 confirming the selected areas to be filled as highlighted on the cut to fill plan were stripped of topsoil prior to filling.

An initial proof roll was undertaken and subsequently throughout the project duration to identify and rectify any soft areas.

#### 3. Fill Material

It is understood that the fill material used was from on-site excavations, mainly drainage trenches and road boxing.



#### GEOTECHNICAL LABORATORIES PTY LTD ABN 51 102 571 077 14 RAVENHALL WAY RAVENHALL 3023 PH. (03) 8361-9140

The fill material is best described as a silty CLAY, brown, pale brown, slightly moist to moist, medium to high plasticity with basalt gravels and occasional cobbles.

The fill material is consistent with the naturally occurring soils for this region.

Source material was deemed a **Suitable Material** in accordance with guidelines set out in AS 3798 - 2007 Section 4.4.

### 4. Fill Construction Procedure

The following plant (but not always limited to) were engaged in the fill placement process:

- Highway trucks
- A watercart
- A sheepsfoot compactor (815)

The compactor placed material in horizontal loose layers of approximately 250-300mm. The compactor also performed compaction of the clay fill operating in a criss-cross pattern.

The moisture condition of the fill was closely monitored and moisture conditioning procedures were applied to bring the material closer to its Standard Optimum Moisture Content (AS 1289 5.7.1).

#### 5. Compaction Control Testing

Compaction control testing was performed on-site using a Nuclear Densometer in accordance with AS 1289 5.8.1. Laboratory reference densities were determined from material sampled at each test site location using the Hilf Rapid Compaction Method in accordance with AS 1289 5.7.1.

A total of sixteen compaction tests were performed on the fill construction. Results are presented in Appendix B of this report.

#### 6. Testing Frequency

Testing frequencies were in accordance with **AS 3798 - 2007 Table 8.1** for **Large Scale Operations.** 

Acceptance of fill layers for compaction was based on the requirements of **AS** 3798 - 2007 Table 5.1 Item 1. Residential.



#### GEOTECHNICAL LABORATORIES PTY LTD ABN 51 102 571 077 14 RAVENHALL WAY RAVENHALL 3023 PH. (03) 8361-9140

As a result, the compliance criteria adopted by Geotechnical Laboratories was a hilf density ratio not less than 95 percent of the maximum hilf density value as determined by the Standard Hilf Rapid Compaction Method in accordance with AS 1289 5.7.1.

The specified moisture criteria was a moisture content within the range of -10 percent to +5 percent of the material's optimum moisture content.

Test results indicate that the above-mentioned requirements have been successfully achieved.

### 7. Statement of Compliance

So far as can be determined, Symon Bros. Constructions Pty Ltd has satisfactorily complied with the compaction and construction processes required for the structural filling of this site. As such, structural filling placed on this site by Symon Bros. Constructions Pty Ltd from the 21<sup>st</sup> of June 2021 to the 13<sup>th</sup> of April 2022 can be categorised as CONTROLLED FILL in accordance with AS 2870-2011.

### 8. Limitations and Liability of this Report

This report has been produced for and remains the property of Symon Bros Constructions Pty Ltd.

The release of this report to a third party will only occur if Geotechnical Laboratories Pty Ltd has received, in writing, the authority to do so by our client.

Geotechnical Laboratories Pty Ltd will not engage in any third-party communication regarding this report.

Where information has been supplied by the client or third party, the assumption is made that this is correct. Geotechnical Laboratories Pty Ltd will not be held responsible for any inaccuracies supplied.

Test results and controlled fill compliance relates only to fill placed by Symon Bros. Constructions Pty Ltd and for earthworks completed at the time of inspection and testing. Any previous or subsequent earthworks will require a separate evaluation.

For & on behalf of Geotechnical Laboratories Pty Ltd.

Sam Loza

Laboratory Manager.

# GEOTECHNICAL LABORATORIES PTY LTD ABN 51 102 571 077 14 RAVENHALL WAY RAVENHALL 3023 PH. (03) 8361-9140

### LEVEL ONE

## **SURVEILLANCE**

## AND INSPECTION REPORT

# APPENDIX A



# GEOTECHNICAL LABORATORIES PTY LTD ABN 51 102 571 077 14 RAVENHALL WAY RAVENHALL 3023 PH. (03) 8361-9140

### LEVEL ONE

### **SURVEILLANCE**

## AND INSPECTION REPORT

# APPENDIX B



### **DAILY SUMMARY - FIELD DENSITY TESTS**

REPORT NO.: # 2323/097

14 Ravenhall Way, Ravenhall, Vic 3023

Email: info@geolab.com.au PH: (03) 8361-9140

SYMON BROS - Lucas Estate Stage M1 LOCATION:

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)
21/06/21	1		2.05	26.0	100.5	2.04	26.0	175	0.0 Drier	100.0	0	0	0
21/06/21	2		2.03	25.0	98.5	2.06	25.5	175	0.5 Drier	99.0	0	0	0
21/06/21	3	Refer to #2323/098 for	2.04	26.0	101.5	2.01	25.5	175	0.5 Wetter	101.0	0	0	0
-	-	approx. test site locations.	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Compaction specimens sampled after compaction.

Test sites located - Geolab Procedure 4, Part 4.4.

Start Time: 2:10pm Finish Time: 2:30pm

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

**NATA** 

TECHNICAL

Moisture Content: AS 1289 2.1.1

Soil Layer thickness: 200mm

Compaction Test: AS 1289 5.7.1

Hilf Density Ratio and Hilf Moisture Variation, Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Accredited for compliance with ISO/IEC

MICK CROWE (Approved Signatory)

Materials Sampled: AS 1289 1.2.1 Clause 6.4(b)

17025 - Testing

NATA Accredited Laboratory Number 14561

¥

Issue Date: 22/6/2021





## GEOTECHNICAL LABORATORIES ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023 Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT: SYMON BROS

LOCATION: Lucas Estate Stage M1

Sketch indicating compaction test locations

DATE 21/06/2021 JOB No.: 2323/098

OPERATOR: TI CHECKED: KK

SCALE: NTS FIGURE No: -



**GEOTECHNICAL LABORATORIES** ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023

Email: info@geolab.com.au PH: (03) 8361-9140

REPORT NO.: # 2323/099

SYMON BROS - Lucas Estate, Stage M1 LOCATION:

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)
9/07/21	1		1.97	28.5	97.0	2.03	25.5	175	3.0 Wetter	112.0	0	0	0
9/07/21	2		1.95	30.0	96.5	<b>№</b> 2.02	27.0	175	3.0 Wetter	111.5	8	0	0
9/07/21	3	Refer to #2323/100 for	1.90	31.5	96.5	1.98	28.5	175	3.5 Wetter	112.0	0	0	0
-	-	approx. test site locations.	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Soil Layer thickness: 200mm

Compaction specimens sampled after compaction.

Test sites located - Geolab Procedure 4, Part 4.4.

Start Time: 10:45am Finish Time: 12:00pm

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

**NATA** 

TECHNICAL

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Hilf Density Ratio and Hilf Moisture Variation, Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled: AS 1289 1.2.1 Clause 6.4(b)

Accredited for compliance with ISO/IEC

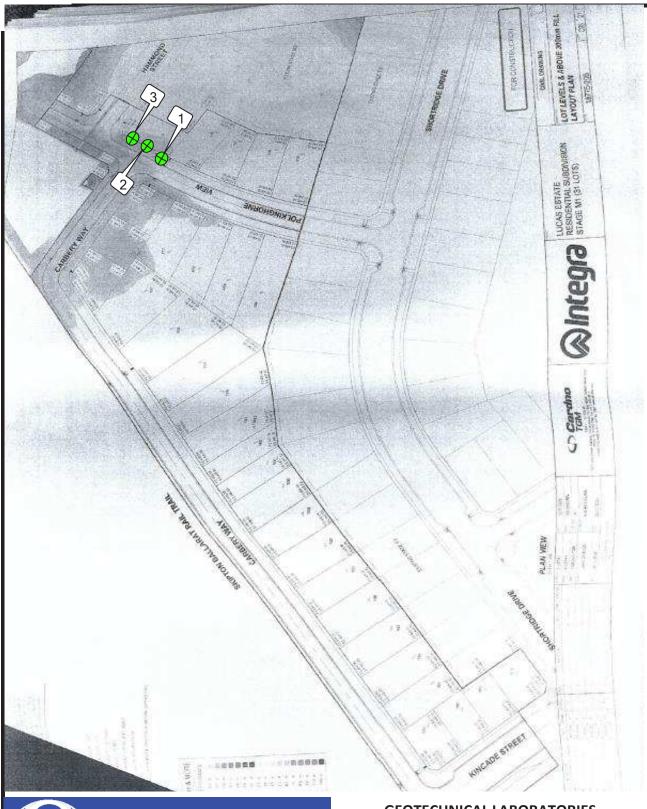
17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE

(Approved Signatory)

Issue Date: 14/7/2021





## GEOTECHNICAL LABORATORIES ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023 Email: info@geolab.com.au PH: (03) 8361-9140

ı	Sketch indicating compaction test locations	SCALE: NTS	FIGURE No: -
	LOCATION: Lucas Estate Stage M1	OPERATOR: TC	CHECKED: KK
ı	CLIENT: SYMON BROS	DATE: 9/07/2021	JOB No.: 2323/100



REPORT NO.: # 2323/153

14 Ravenhall Way, Ravenhall, Vic 3023 Email: info@geolab.com.au PH: (03) 8361-9140

SYMON BROS - Lucas, Stage M2 LOCATION:

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)
15/02/22	1		2.07	17.5	98.5	2.09	21.0	175	3.0 Drier	85.5	0	0	0
15/02/22	2		2.11	17.5	98.5	2.15	18.0	175	0.5 Drier	97.5	0	0	0
15/02/22	3	Refer to #2323/154 for	2.18	16.5	102.5	2.13	17.5	175	1.5 Drier	92.0	0	0	0
-	-	approx. test site locations.	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Compaction specimens sampled after compaction.

Test sites located - Geolab Procedure 4, Part 4.4.

Start Time: 11:00am

Finish Time: 11:35am

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

NATA

TECHNICAL

Moisture Content: AS 1289 2.1.1

Soil Layer thickness: 200mm Compaction Test: AS 1289 5.7.1

Hilf Density Ratio and Hilf Moisture Variation, Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled: AS 1289 1.2.1 Clause 6.4(b)

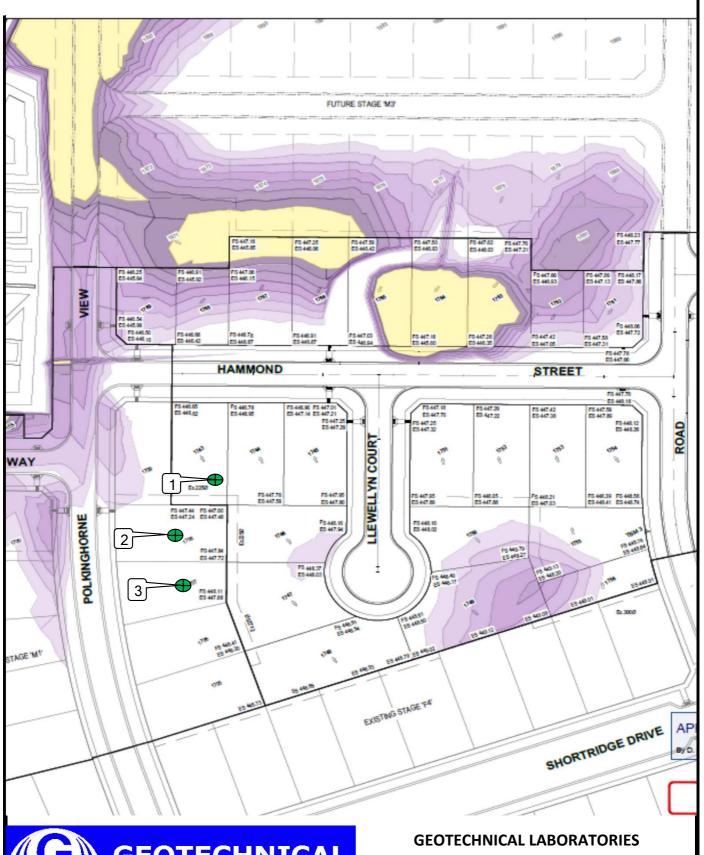
Accredited for compliance with ISO/IEC

NATA Accredited Laboratory Number 14561

MICK CROWE

(Approved Signatory)

Issue Date: 21/2/2022





14 Ravenhall Way, Ravenhall, Vic 3023 Email: info@geolab.com.au PH: (03) 8361-9140

CLIENT:	SYMON	BROS
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LOCATION: Lucas Estate Stage M2

Sketch indicating compaction test locations

DATE: 15/02/2022	JOB No.: 2323/154
OPERATOR: BM	CHECKED: KK
SCALE: NTS	FIGURE No: -



14 Ravenhall Way, Ravenhall, Vic 3023

Email: info@geolab.com.au

### **DAILY SUMMARY - FIELD DENSITY TESTS**

REPORT NO.: # 2323/157

LOCATION:

SYMON BROS - Lucas, Stage M1

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)
18/02/22	1		2.17	19.5	104.5	2.08	19.5	175	0.0 Wetter	101.0	0	0	300
18/02/22	2		1.98	22.0	98.0	2.02	21.5	175	0.5 Wetter	103.5	0	0	500
18/02/22	3	Refer to #2323/158 for	1.88	33.5	99.5	1.89	30.0	175	3.5 Wetter	111.5	0	0	300
-	-	approx. test site locations.	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	1	-	-	-	1	-	-

NOTES: Clayey Fill Ex. Onsite

Soil Layer thickness: 200mm

Compaction specimens sampled after compaction.

Test sites located - Geolab Procedure 4, Part 4.4.

PH: (03) 8361-9140

Start Time: 2:00pm Finish Time: 2:40pm

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Hilf Density Ratio and Hilf Moisture Variation, Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled: AS 1289 1.2.1 Clause 6.4(b)

Accredited for compliance with ISO/IEC

NATA

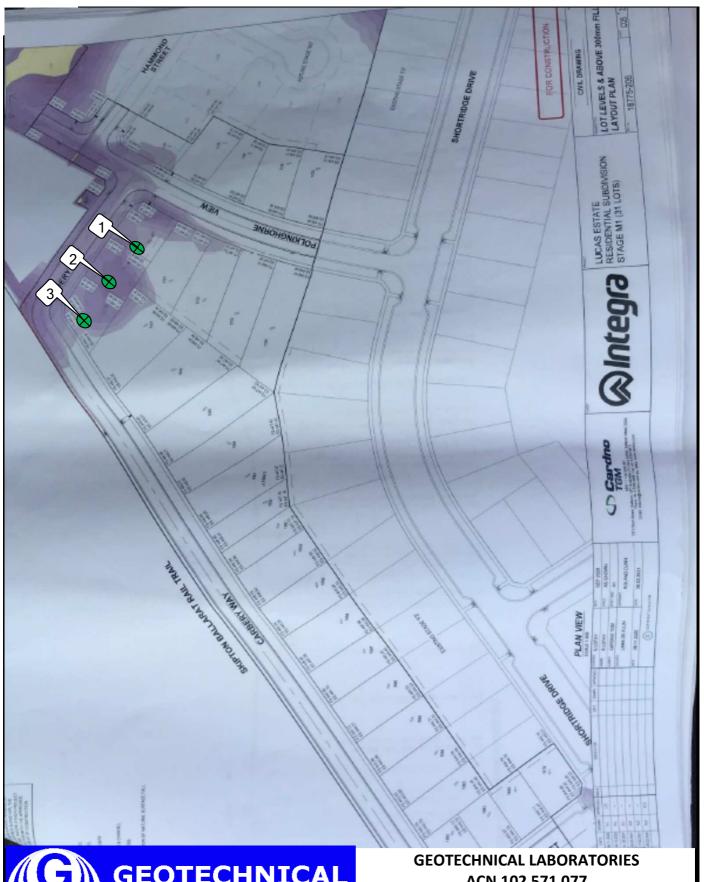
TECHNICAL

NATA Accredited Laboratory Number 14561

MICK CROWE

(Approved Signatory)

Issue Date: 25/2/2022





14 Ravenhall Way, Ravenhall, Vic 3023 Email: info@geolab.com.au PH: (03) 8361-9140

**CLIENT: SYMON BROS** 

**LOCATION: Lucas Estate Stage M1** 

Sketch indicating compaction test locations

DATE: 18/02/2022 JOB No.: 2323/158

**OPERATOR: DB** CHECKED: KK

SCALE: NTS FIGURE No: -



REPORT NO.: # 2323/159

LOCATION:

14 Ravenhall Way, Ravenhall, Vic 3023 Email: info@geolab.com.au PH: (03) 8361-9140 SYMON BROS - Lucas Estate, Stage M1

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)
21/02/22	1		2.09	17.5	98.5	2.13	17.0	175	0.0 Wetter	101.5	0	0	100
21/02/22	2		2.07	16.0	96.0	2.16	16.0	175	0.0 Wetter	101.5	0	0	100
21/02/22	3	Refer to #2323/160 for	2.07	16.0	96.0	2.15	16.0	175	0.0 Wetter	101.5	0	0	100
-	-	approx. test site locations.	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Compaction specimens sampled after compaction.

Test sites located - Geolab Procedure 4, Part 4.4.

Start Time: 2:20pm Finish Time: 3:10pm

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

NATA

TECHNICAL

Moisture Content: AS 1289 2.1.1

Soil Layer thickness: 200mm Compaction Test: AS 1289 5.7.1

Hilf Density Ratio and Hilf Moisture Variation, Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled: AS 1289 1.2.1 Clause 6.4(b)

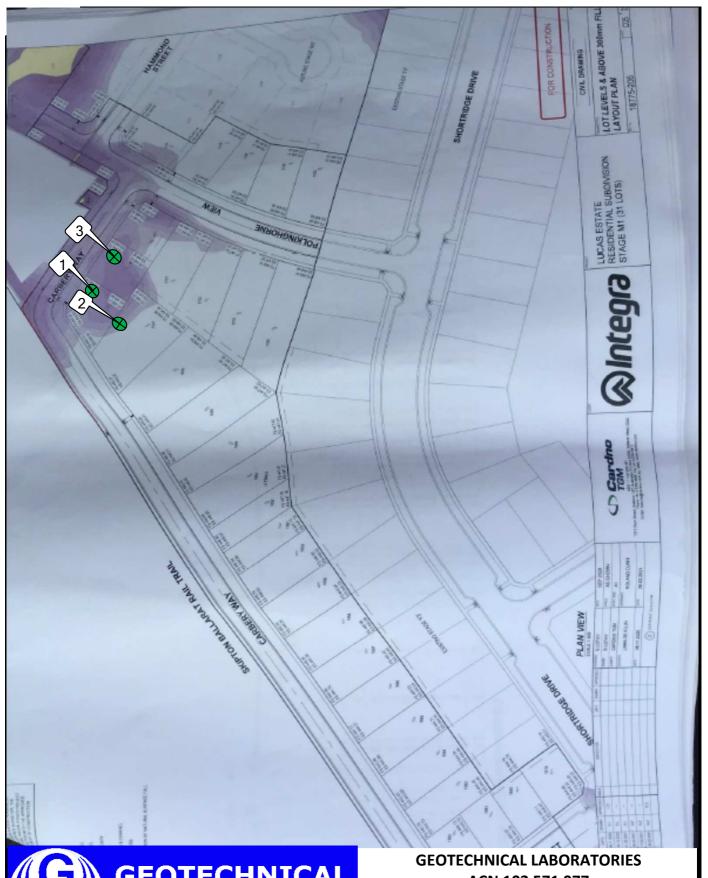
Accredited for compliance with ISO/IEC

NATA Accredited Laboratory Number 14561

MICK CROWE

(Approved Signatory)

Issue Date: 28/2/2022





14 Ravenhall Way, Ravenhall, Vic 3023 Email: info@geolab.com.au PH: (03) 8361-9140

**CLIENT: SYMON BROS** 

**LOCATION: Lucas Estate Stage M1** 

Sketch indicating compaction test locations

DATE: 21/02/2022 JOB No.: 2323/160

**OPERATOR:** BM CHECKED: KK

**SCALE: NTS** FIGURE No: -



REPORT NO.: # 2323/161

14 Ravenhall Way, Ravenhall, Vic 3023 Email: info@geolab.com.au PH: (03) 8361-9140

SYMON BROS - Lucas Estate, Stage M1 LOCATION:

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)
22/02/22	1		2.08	16.5	96.5	2.16	16.5	175	0.0 Drier	98.5	0	0	0
22/02/22	2		2.17	20.5	99.5	2.18	18.5	175	2.0 Wetter	110.5	0	0	0
22/02/22	3	Refer to #2323/162 for	2.12	19.5	98.0	2.16	18.5	175	1.0 Wetter	105.0	0	0	0
-	-	approx. test site locations.	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Compaction specimens sampled after compaction.

Test sites located - Geolab Procedure 4, Part 4.4.

Start Time: 2:10pm Finish Time: 2:45pm

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

NATA

TECHNICAL

Moisture Content: AS 1289 2.1.1

Soil Layer thickness: 200mm Compaction Test: AS 1289 5.7.1

Hilf Density Ratio and Hilf Moisture Variation, Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled: AS 1289 1.2.1 Clause 6.4(b)

Accredited for compliance with ISO/IEC

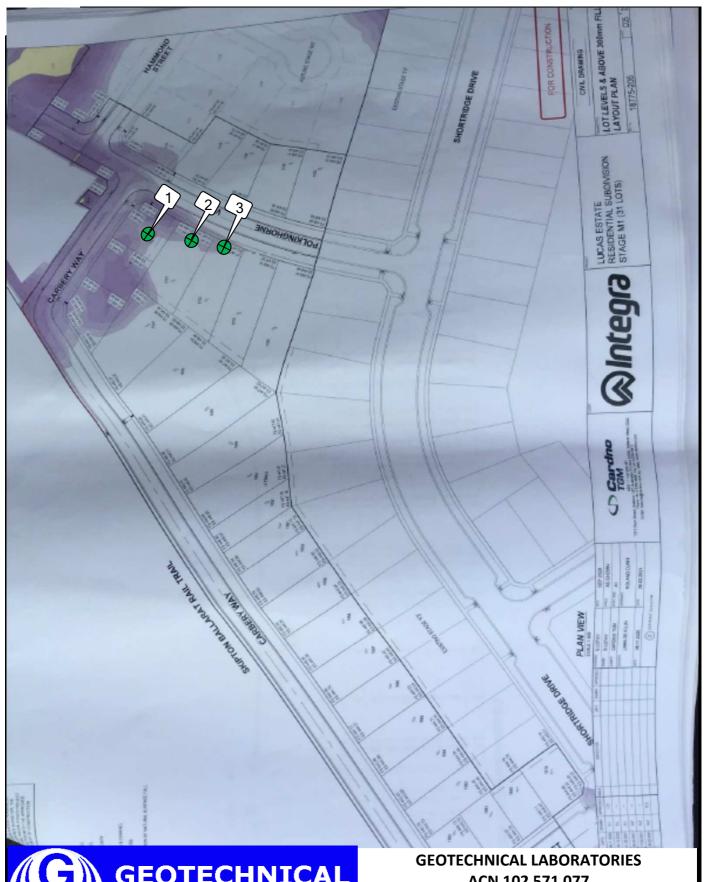
17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE

(Approved Signatory)

Issue Date: 28/2/2022





14 Ravenhall Way, Ravenhall, Vic 3023 Email: info@geolab.com.au PH: (03) 8361-9140

**CLIENT: SYMON BROS** 

**LOCATION: Lucas Estate Stage M1** 

Sketch indicating compaction test locations

DATE: 22/02/2022 JOB No.: 2323/162

**OPERATOR: BM** CHECKED: KK

SCALE: NTS FIGURE No: -



REPORT NO.: # 2323/221

14 Ravenhall Way, Ravenhall, Vic 3023 Email: info@geolab.com.au PH: (03) 8361-9140

SYMON BROS - Lucas Estate - Stage M1 LOCATION:

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)
13/04/22	1		2.06	25.0	107.5	1.92	26.5	175	1.5 Drier	94.5	0	0	400
13/04/22	2		2.05	26.5	104.5	1.96	26.5	175	0.5 Wetter	101.0	0	0	200
13/04/22	3	Refer to #2323/222 for	2.03	29.0	103.0	1.98	27.0	175	2.0 Wetter	107.5	0	0	0
-	-	approx. test site locations.	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Compaction specimens sampled after compaction.

Test sites located - Geolab Procedure 4, Part 4.3.

Start Time: 12:10pm Finish Time: 1:50pm

A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

NATA

TECHNICAL

Moisture Content: AS 1289 2.1.1

Soil Layer thickness: 200mm Compaction Test: AS 1289 5.7.1

Hilf Density Ratio and Hilf Moisture Variation, Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled: AS 1289 1.2.1 Clause 6.4(b)

Accredited for compliance with ISO/IEC

NATA Accredited Laboratory Number 14561

MICK CROWE

(Approved Signatory)

Issue Date: 20/4/2022

