



CIVIL GEOTECHNICAL SERVICES
ABN 26 474 013 724
PO Box 678 Croydon Vic 3136
Telephone: 9723 0744 Facsimile: 9723 0799

24th May 2017

Our Reference: 16531:GB177

Rokon Pty Ltd
1 / 75 River Street
RICHMOND VIC 3121

Dear Sirs/ Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
ROTHWELL – STAGE 6, TRUGANINA

Please find attached our Report Nos 16531/R001 and 16531/R002 that relate to the field density testing that was conducted within the filled allotments at the above subdivision. The level 1 inspections and associated field density testing commenced in mid November 2016 and was completed in mid March 2017.

The inspections and testing of the earthworks was undertaken in general accordance with the Level 1 requirements of AS 3798 - Guidelines on Earthworks for Commercial and Residential Developments.

The site inspections and testing was performed by an experienced geotechnician from this office. Any areas that were deemed unsatisfactory were reworked and retested under their supervision. The testing was performed to the relevant Australian Standards and the accompanying test reports carry NATA endorsement. The attached compaction results, which were located randomly throughout the fill profile, are considered to be representative of the bulk fill materials that were placed across the filled allotments by Rokon during the aforementioned period. The approximate locations of the field density tests can be seen on the attached plan (Figure 1).

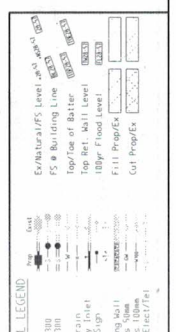
We are of the view that the bulk fill materials that have been placed across the filled allotments by Rokon during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Griffin Brown

FIGURE - 1





COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client ROKON (RICHMOND)
Project ROTHWELL ESTATE - STAGE 6
Location TRUGANINA

Job No 16531
Report No 16531/R001
Date Issued 21/12/16
Tested by WS
Date tested 18/11/16
Checked by JHF

Feature EARTHWORKS Layer thickness 200 mm Time: 01:00

Test procedure AS 1289.2.1.1 & 5.8.1

Test No	1	2	3	-	-	-
Location	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1			
Approximate depth below FSL						
Measurement depth mm	175	175	175	-	-	-
Field wet density t/m ³	1.83	1.78	1.76	-	-	-
Field moisture content %	21.1	17.5	15.8	-	-	-

Test procedure AS 1289.5.7.1

Test No	1	2	3	-	-	-
Compactive effort	Standard					
Oversize rock retained on sieve mm	19.0	19.0	19.0	-	-	-
Percent of oversize material wet	0	0	0	-	-	-
Peak Converted Wet Density t/m ³	1.82	1.82	1.81	-	-	-
Adjusted Peak Converted Wet Density t/m ³	-	-	-	-	-	-
Optimum Moisture Content %	22.5	19.5	17.5	-	-	-

Moisture Variation From Optimum Moisture Content	1.5% dry	2.0% dry	2.0% dry	-	-	-
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Density Ratio (R_{HD})	%	100.5	98.0	97.5	-	-	-
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Material description

No 1 - 3 Clay Fill



The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/National standards. Accredited for compliance to ISO/IEC 17025. Accreditation No 9909

Justin Fry

Approved Signatory : Justin Fry

AVRLOT HILF V1.10 MAR 13



COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Job No 16531
Report No 16531/R002
Date Issued 24/05/2017
Tested by AG
Date tested 18/05/17
Checked by JHF

Client ROKON (RICHMOND)
Project ROTHWELL ESTATE - STAGE 6
Location TRUGANINA

Feature EARTHWORKS Layer thickness 200 mm Time: 09:10

Test procedure AS 1289.2.1.1 & 5.8.1

Test No	4	5	-	-	-	-
Location	REFER TO FIGURE 1	REFER TO FIGURE 1				
Approximate depth below FSL						
Measurement depth mm	175	175	-	-	-	-
Field wet density t/m ³	1.92	1.94	-	-	-	-
Field moisture content %	18.0	21.1	-	-	-	-

Test procedure AS 1289.5.7.1

Test No	4	5	-	-	-	-
Compactive effort	Standard					
Oversize rock retained on sieve mm	19.0	19.0	-	-	-	-
Percent of oversize material wet	0	4	-	-	-	-
Peak Converted Wet Density t/m ³	1.92	1.97	-	-	-	-
Adjusted Peak Converted Wet Density t/m ³	-	2.05	-	-	-	-
Optimum Moisture Content %	19.0	22.0	-	-	-	-

Moisture Variation From Optimum Moisture Content	1.0% dry	0.5% dry	-	-	-	-
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Density Ratio (R_{HD})	%	100.5	95.0	-	-	-	-
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Material description

No 4 - 5 Clay Fill



The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/National standards. Accredited for compliance to ISO/IEC 17025. Accreditation No 9909

Approved Signatory : Justin Fry

AVRLOT HILF V1.10 MAR 13



FILL CERTIFICATE

PROJECT: Lot No 615 (as per Drawing No 8584E/6)
Rothwell (Stage 7), Truganina

CLIENT: Rokon Pty Ltd
1 / 75 River Street
RICHMOND VIC 3121

REPORT NO: 16531_615

DATE: 24/05/17

SUMMARY

Civil Geotechnical Services were engaged by Rokon Pty Ltd to provide inspection and testing services on the earthworks associated with the construction of the Rothwell (Stage 6) Truganina, in a manner which would satisfy the criteria for Level 1 Supervision as specified in Section 8.2 of AS 3798 - Guidelines on Earthworks for Commercial and Residential Developments - 2007. The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the area of fill placement.

A site inspection was conducted prior to any fill being placed on the allotments. On the completion of the earthworks and after examining the materials used, we are of the opinion that the filling procedure conducted by Rokon Pty Ltd during the construction of the estate satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project under Level 1 Supervision.

With respect to Lot 615, the depth of fill materials that were placed during the current construction phase (excluding top soiling activities) was less than 0.3 metres. As a consequence of the limited depth of fill materials, field density testing was not considered warranted. However, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential Slabs and Footings – Construction (2011), we are of the view that the bulk fill materials that were placed on this Lot by Rokon Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to May 2017.

Griffin Brown



FILL CERTIFICATE

PROJECT: Lot No 616 (as per Drawing No 8584E/6)
Rothwell (Stage 6), Truganina

CLIENT: Rokon Pty Ltd
1 / 75 River Street
RICHMOND VIC 3121

REPORT NO: 16531_616

DATE: 24/05/17

SUMMARY

Civil Geotechnical Services were engaged by Rokon Pty Ltd to provide inspection and testing services on the earthworks associated with Lot 616 of Rothwell (Stage 6), Truganina, in a manner which would satisfy the criteria for Level 1 Supervision as specified in Section 8.2 of AS 3798 - Guidelines on Earthworks for Commercial and Residential Developments - 2007. The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the area of fill placement.

A site inspection was conducted prior to any fill being placed on the Lot. On the completion of earthworks and after examining the test results and the materials used, we are of the opinion that the filling procedure conducted by Rokon Pty Ltd satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project under Level 1 Supervision.

Accordingly, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential Slabs and Footings – Construction (2011), we are of the view that the bulk fill materials that were placed on this Lot by Rokon Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to May 2017.

Griffin Brown



FILL CERTIFICATE

PROJECT: Lot No 617 (as per Drawing No 8584E/6)
Rothwell (Stage 6), Truganina

CLIENT: Rokon Pty Ltd
1 / 75 River Street
RICHMOND VIC 3121

REPORT NO: 16531_617

DATE: 24/05/17

SUMMARY

Civil Geotechnical Services were engaged by Rokon Pty Ltd to provide inspection and testing services on the earthworks associated with Lot 617 of Rothwell (Stage 6), Truganina, in a manner which would satisfy the criteria for Level 1 Supervision as specified in Section 8.2 of AS 3798 - Guidelines on Earthworks for Commercial and Residential Developments - 2007. The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the area of fill placement.

A site inspection was conducted prior to any fill being placed on the Lot. On the completion of earthworks and after examining the test results and the materials used, we are of the opinion that the filling procedure conducted by Rokon Pty Ltd satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project under Level 1 Supervision.

Accordingly, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential Slabs and Footings – Construction (2011), we are of the view that the bulk fill materials that were placed on this Lot by Rokon Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to May 2017.

Griffin Brown



FILL CERTIFICATE

PROJECT: Lot No 618 (as per Drawing No 8584E/6)
Rothwell (Stage 6), Truganina

CLIENT: Rokon Pty Ltd
1 / 75 River Street
RICHMOND VIC 3121

REPORT NO: 16531_618

DATE: 24/05/17

SUMMARY

Civil Geotechnical Services were engaged by Rokon Pty Ltd to provide inspection and testing services on the earthworks associated with Lot 618 of Rothwell (Stage 6), Truganina, in a manner which would satisfy the criteria for Level 1 Supervision as specified in Section 8.2 of AS 3798 - Guidelines on Earthworks for Commercial and Residential Developments - 2007. The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the area of fill placement.

A site inspection was conducted prior to any fill being placed on the Lot. On the completion of earthworks and after examining the test results and the materials used, we are of the opinion that the filling procedure conducted by Rokon Pty Ltd satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project under Level 1 Supervision.

Accordingly, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential Slabs and Footings – Construction (2011), we are of the view that the bulk fill materials that were placed on this Lot by Rokon Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to May 2017.

Griffin Brown



FILL CERTIFICATE

PROJECT: Lot No 619 (as per Drawing No 8584E/6)
Rothwell (Stage 7), Truganina

CLIENT: Rokon Pty Ltd
1 / 75 River Street
RICHMOND VIC 3121

REPORT NO: 16531_619

DATE: 24/05/17

SUMMARY

Civil Geotechnical Services were engaged by Rokon Pty Ltd to provide inspection and testing services on the earthworks associated with the construction of the Rothwell (Stage 6) Truganina, in a manner which would satisfy the criteria for Level 1 Supervision as specified in Section 8.2 of AS 3798 - Guidelines on Earthworks for Commercial and Residential Developments - 2007. The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the area of fill placement.

A site inspection was conducted prior to any fill being placed on the allotments. On the completion of the earthworks and after examining the materials used, we are of the opinion that the filling procedure conducted by Rokon Pty Ltd during the construction of the estate satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project under Level 1 Supervision.

With respect to Lot 619, the depth of fill materials that were placed during the current construction phase (excluding top soiling activities) was less than 0.3 metres. As a consequence of the limited depth of fill materials, field density testing was not considered warranted. However, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential Slabs and Footings – Construction (2011), we are of the view that the bulk fill materials that were placed on this Lot by Rokon Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to May 2017.

Griffin Brown



FILL CERTIFICATE

PROJECT: Lot No 620 (as per Drawing No 8584E/6)
Rothwell (Stage 7), Truganina

CLIENT: Rokon Pty Ltd
1 / 75 River Street
RICHMOND VIC 3121

REPORT NO: 16531_620

DATE: 24/05/17

SUMMARY

Civil Geotechnical Services were engaged by Rokon Pty Ltd to provide inspection and testing services on the earthworks associated with the construction of the Rothwell (Stage 6) Truganina, in a manner which would satisfy the criteria for Level 1 Supervision as specified in Section 8.2 of AS 3798 - Guidelines on Earthworks for Commercial and Residential Developments - 2007. The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the area of fill placement.

A site inspection was conducted prior to any fill being placed on the allotments. On the completion of the earthworks and after examining the materials used, we are of the opinion that the filling procedure conducted by Rokon Pty Ltd during the construction of the estate satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project under Level 1 Supervision.

With respect to Lot 620, the depth of fill materials that were placed during the current construction phase (excluding top soiling activities) was less than 0.3 metres. As a consequence of the limited depth of fill materials, field density testing was not considered warranted. However, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential Slabs and Footings – Construction (2011), we are of the view that the bulk fill materials that were placed on this Lot by Rokon Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to May 2017.

Griffin Brown



FILL CERTIFICATE

PROJECT: Lot No 623 (as per Drawing No 8584E/6)
Rothwell (Stage 7), Truganina

CLIENT: Rokon Pty Ltd
1 / 75 River Street
RICHMOND VIC 3121

REPORT NO: 16531_623

DATE: 24/05/17

SUMMARY

Civil Geotechnical Services were engaged by Rokon Pty Ltd to provide inspection and testing services on the earthworks associated with the construction of the Rothwell (Stage 6) Truganina, in a manner which would satisfy the criteria for Level 1 Supervision as specified in Section 8.2 of AS 3798 - Guidelines on Earthworks for Commercial and Residential Developments - 2007. The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the area of fill placement.

A site inspection was conducted prior to any fill being placed on the allotments. On the completion of the earthworks and after examining the materials used, we are of the opinion that the filling procedure conducted by Rokon Pty Ltd during the construction of the estate satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project under Level 1 Supervision.

With respect to Lot 623, the depth of fill materials that were placed during the current construction phase (excluding top soiling activities) was less than 0.3 metres. As a consequence of the limited depth of fill materials, field density testing was not considered warranted. However, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential Slabs and Footings – Construction (2011), we are of the view that the bulk fill materials that were placed on this Lot by Rokon Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to May 2017.

Griffin Brown



FILL CERTIFICATE

PROJECT: Lot No 624 (as per Drawing No 8584E/6)
Rothwell (Stage 6), Truganina

CLIENT: Rokon Pty Ltd
1 / 75 River Street
RICHMOND VIC 3121

REPORT NO: 16531_624

DATE: 24/05/17

SUMMARY

Civil Geotechnical Services were engaged by Rokon Pty Ltd to provide inspection and testing services on the earthworks associated with Lot 624 of Rothwell (Stage 6), Truganina, in a manner which would satisfy the criteria for Level 1 Supervision as specified in Section 8.2 of AS 3798 - Guidelines on Earthworks for Commercial and Residential Developments - 2007. The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the area of fill placement.

A site inspection was conducted prior to any fill being placed on the Lot. On the completion of earthworks and after examining the test results and the materials used, we are of the opinion that the filling procedure conducted by Rokon Pty Ltd satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project under Level 1 Supervision.

Accordingly, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential Slabs and Footings – Construction (2011), we are of the view that the bulk fill materials that were placed on this Lot by Rokon Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to May 2017.

Griffin Brown



FILL CERTIFICATE

PROJECT: Lot No 625 (as per Drawing No 8584E/6)
Rothwell (Stage 6), Truganina

CLIENT: Rokon Pty Ltd
1 / 75 River Street
RICHMOND VIC 3121

REPORT NO: 16531_625

DATE: 24/05/17

SUMMARY

Civil Geotechnical Services were engaged by Rokon Pty Ltd to provide inspection and testing services on the earthworks associated with Lot 625 of Rothwell (Stage 6), Truganina, in a manner which would satisfy the criteria for Level 1 Supervision as specified in Section 8.2 of AS 3798 - Guidelines on Earthworks for Commercial and Residential Developments - 2007. The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the area of fill placement.

A site inspection was conducted prior to any fill being placed on the Lot. On the completion of earthworks and after examining the test results and the materials used, we are of the opinion that the filling procedure conducted by Rokon Pty Ltd satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project under Level 1 Supervision.

Accordingly, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential Slabs and Footings – Construction (2011), we are of the view that the bulk fill materials that were placed on this Lot by Rokon Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to May 2017.

Griffin Brown



FILL CERTIFICATE

PROJECT: Lot No 626 (as per Drawing No 8584E/6)
Rothwell (Stage 6), Truganina

CLIENT: Rokon Pty Ltd
1 / 75 River Street
RICHMOND VIC 3121

REPORT NO: 16531_626

DATE: 24/05/17

SUMMARY

Civil Geotechnical Services were engaged by Rokon Pty Ltd to provide inspection and testing services on the earthworks associated with Lot 626 of Rothwell (Stage 6), Truganina, in a manner which would satisfy the criteria for Level 1 Supervision as specified in Section 8.2 of AS 3798 - Guidelines on Earthworks for Commercial and Residential Developments - 2007. The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the area of fill placement.

A site inspection was conducted prior to any fill being placed on the Lot. On the completion of earthworks and after examining the test results and the materials used, we are of the opinion that the filling procedure conducted by Rokon Pty Ltd satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project under Level 1 Supervision.

Accordingly, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential Slabs and Footings – Construction (2011), we are of the view that the bulk fill materials that were placed on this Lot by Rokon Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to May 2017.

A handwritten signature in black ink, appearing to read 'Griffin Brown'.

Griffin Brown



FILL CERTIFICATE

PROJECT: Lot No 628 (as per Drawing No 8584E/6)
Rothwell (Stage 7), Truganina

CLIENT: Rokon Pty Ltd
1 / 75 River Street
RICHMOND VIC 3121

REPORT NO: 16531_628

DATE: 24/05/17

SUMMARY

Civil Geotechnical Services were engaged by Rokon Pty Ltd to provide inspection and testing services on the earthworks associated with the construction of the Rothwell (Stage 6) Truganina, in a manner which would satisfy the criteria for Level 1 Supervision as specified in Section 8.2 of AS 3798 - Guidelines on Earthworks for Commercial and Residential Developments - 2007. The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the area of fill placement.

A site inspection was conducted prior to any fill being placed on the allotments. On the completion of the earthworks and after examining the materials used, we are of the opinion that the filling procedure conducted by Rokon Pty Ltd during the construction of the estate satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project under Level 1 Supervision.

With respect to Lot 628, the depth of fill materials that were placed during the current construction phase (excluding top soiling activities) was less than 0.3 metres. As a consequence of the limited depth of fill materials, field density testing was not considered warranted. However, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential Slabs and Footings – Construction (2011), we are of the view that the bulk fill materials that were placed on this Lot by Rokon Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to May 2017.

Griffin Brown



FILL CERTIFICATE

PROJECT: Lot No 629 (as per Drawing No 8584E/6)
Rothwell (Stage 6), Truganina

CLIENT: Rokon Pty Ltd
1 / 75 River Street
RICHMOND VIC 3121

REPORT NO: 16531_629

DATE: 24/05/17

SUMMARY

Civil Geotechnical Services were engaged by Rokon Pty Ltd to provide inspection and testing services on the earthworks associated with Lot 629 of Rothwell (Stage 6), Truganina, in a manner which would satisfy the criteria for Level 1 Supervision as specified in Section 8.2 of AS 3798 - Guidelines on Earthworks for Commercial and Residential Developments - 2007. The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the area of fill placement.

A site inspection was conducted prior to any fill being placed on the Lot. On the completion of earthworks and after examining the test results and the materials used, we are of the opinion that the filling procedure conducted by Rokon Pty Ltd satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project under Level 1 Supervision.

Accordingly, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential Slabs and Footings – Construction (2011), we are of the view that the bulk fill materials that were placed on this Lot by Rokon Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to May 2017.

Griffin Brown



FILL CERTIFICATE

PROJECT: Lot No 630 (as per Drawing No 8584E/6)
Rothwell (Stage 6), Truganina

CLIENT: Rokon Pty Ltd
1 / 75 River Street
RICHMOND VIC 3121

REPORT NO: 16531_630

DATE: 24/05/17

SUMMARY

Civil Geotechnical Services were engaged by Rokon Pty Ltd to provide inspection and testing services on the earthworks associated with Lot 630 of Rothwell (Stage 6), Truganina, in a manner which would satisfy the criteria for Level 1 Supervision as specified in Section 8.2 of AS 3798 - Guidelines on Earthworks for Commercial and Residential Developments - 2007. The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the area of fill placement.

A site inspection was conducted prior to any fill being placed on the Lot. On the completion of earthworks and after examining the test results and the materials used, we are of the opinion that the filling procedure conducted by Rokon Pty Ltd satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project under Level 1 Supervision.

Accordingly, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential Slabs and Footings – Construction (2011), we are of the view that the bulk fill materials that were placed on this Lot by Rokon Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to May 2017.

Griffin Brown



FILL CERTIFICATE

PROJECT: Lot No 631 (as per Drawing No 8584E/6)
Rothwell (Stage 6), Truganina

CLIENT: Rokon Pty Ltd
1 / 75 River Street
RICHMOND VIC 3121

REPORT NO: 16531_631

DATE: 24/05/17

SUMMARY

Civil Geotechnical Services were engaged by Rokon Pty Ltd to provide inspection and testing services on the earthworks associated with Lot 631 of Rothwell (Stage 6), Truganina, in a manner which would satisfy the criteria for Level 1 Supervision as specified in Section 8.2 of AS 3798 - Guidelines on Earthworks for Commercial and Residential Developments - 2007. The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the area of fill placement.

A site inspection was conducted prior to any fill being placed on the Lot. On the completion of earthworks and after examining the test results and the materials used, we are of the opinion that the filling procedure conducted by Rokon Pty Ltd satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project under Level 1 Supervision.

Accordingly, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential Slabs and Footings – Construction (2011), we are of the view that the bulk fill materials that were placed on this Lot by Rokon Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to May 2017.

Griffin Brown



FILL CERTIFICATE

PROJECT: Lot No 632 (as per Drawing No 8584E/6)
Rothwell (Stage 6), Truganina

CLIENT: Rokon Pty Ltd
1 / 75 River Street
RICHMOND VIC 3121

REPORT NO: 16531_632

DATE: 24/05/17

SUMMARY

Civil Geotechnical Services were engaged by Rokon Pty Ltd to provide inspection and testing services on the earthworks associated with Lot 632 of Rothwell (Stage 6), Truganina, in a manner which would satisfy the criteria for Level 1 Supervision as specified in Section 8.2 of AS 3798 - Guidelines on Earthworks for Commercial and Residential Developments - 2007. The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the area of fill placement.

A site inspection was conducted prior to any fill being placed on the Lot. On the completion of earthworks and after examining the test results and the materials used, we are of the opinion that the filling procedure conducted by Rokon Pty Ltd satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project under Level 1 Supervision.

Accordingly, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential Slabs and Footings – Construction (2011), we are of the view that the bulk fill materials that were placed on this Lot by Rokon Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to May 2017.

Griffin Brown



FILL CERTIFICATE

PROJECT: Lot No 633 (as per Drawing No 8584E/6)
Rothwell (Stage 7), Truganina

CLIENT: Rokon Pty Ltd
1 / 75 River Street
RICHMOND VIC 3121

REPORT NO: 16531_633

DATE: 24/05/17

SUMMARY

Civil Geotechnical Services were engaged by Rokon Pty Ltd to provide inspection and testing services on the earthworks associated with the construction of the Rothwell (Stage 6) Truganina, in a manner which would satisfy the criteria for Level 1 Supervision as specified in Section 8.2 of AS 3798 - Guidelines on Earthworks for Commercial and Residential Developments - 2007. The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the area of fill placement.

A site inspection was conducted prior to any fill being placed on the allotments. On the completion of the earthworks and after examining the materials used, we are of the opinion that the filling procedure conducted by Rokon Pty Ltd during the construction of the estate satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project under Level 1 Supervision.

With respect to Lot 633, the depth of fill materials that were placed during the current construction phase (excluding top soiling activities) was less than 0.3 metres. As a consequence of the limited depth of fill materials, field density testing was not considered warranted. However, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential Slabs and Footings – Construction (2011), we are of the view that the bulk fill materials that were placed on this Lot by Rokon Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to May 2017.

Griffin Brown



FILL CERTIFICATE

PROJECT: Lot No 635 (as per Drawing No 8584E/6)
Rothwell (Stage 7), Truganina

CLIENT: Rokon Pty Ltd
1 / 75 River Street
RICHMOND VIC 3121

REPORT NO: 16531_635

DATE: 24/05/17

SUMMARY

Civil Geotechnical Services were engaged by Rokon Pty Ltd to provide inspection and testing services on the earthworks associated with the construction of the Rothwell (Stage 6) Truganina, in a manner which would satisfy the criteria for Level 1 Supervision as specified in Section 8.2 of AS 3798 - Guidelines on Earthworks for Commercial and Residential Developments - 2007. The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the area of fill placement.

A site inspection was conducted prior to any fill being placed on the allotments. On the completion of the earthworks and after examining the materials used, we are of the opinion that the filling procedure conducted by Rokon Pty Ltd during the construction of the estate satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project under Level 1 Supervision.

With respect to Lot 635, the depth of fill materials that were placed during the current construction phase (excluding top soiling activities) was less than 0.3 metres. As a consequence of the limited depth of fill materials, field density testing was not considered warranted. However, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential Slabs and Footings – Construction (2011), we are of the view that the bulk fill materials that were placed on this Lot by Rokon Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to May 2017.

Griffin Brown



FILL CERTIFICATE

PROJECT: Lot No 636 (as per Drawing No 8584E/6)
Rothwell (Stage 7), Truganina

CLIENT: Rokon Pty Ltd
1 / 75 River Street
RICHMOND VIC 3121

REPORT NO: 16531_636

DATE: 24/05/17

SUMMARY

Civil Geotechnical Services were engaged by Rokon Pty Ltd to provide inspection and testing services on the earthworks associated with the construction of the Rothwell (Stage 6) Truganina, in a manner which would satisfy the criteria for Level 1 Supervision as specified in Section 8.2 of AS 3798 - Guidelines on Earthworks for Commercial and Residential Developments - 2007. The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the area of fill placement.

A site inspection was conducted prior to any fill being placed on the allotments. On the completion of the earthworks and after examining the materials used, we are of the opinion that the filling procedure conducted by Rokon Pty Ltd during the construction of the estate satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project under Level 1 Supervision.

With respect to Lot 636, the depth of fill materials that were placed during the current construction phase (excluding top soiling activities) was less than 0.3 metres. As a consequence of the limited depth of fill materials, field density testing was not considered warranted. However, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential Slabs and Footings – Construction (2011), we are of the view that the bulk fill materials that were placed on this Lot by Rokon Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to May 2017.

Griffin Brown



FILL CERTIFICATE

PROJECT: Lot No 637 (as per Drawing No 8584E/6)
Rothwell (Stage 7), Truganina

CLIENT: Rokon Pty Ltd
1 / 75 River Street
RICHMOND VIC 3121

REPORT NO: 16531_637

DATE: 24/05/17

SUMMARY

Civil Geotechnical Services were engaged by Rokon Pty Ltd to provide inspection and testing services on the earthworks associated with the construction of the Rothwell (Stage 6) Truganina, in a manner which would satisfy the criteria for Level 1 Supervision as specified in Section 8.2 of AS 3798 - Guidelines on Earthworks for Commercial and Residential Developments - 2007. The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the area of fill placement.

A site inspection was conducted prior to any fill being placed on the allotments. On the completion of the earthworks and after examining the materials used, we are of the opinion that the filling procedure conducted by Rokon Pty Ltd during the construction of the estate satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project under Level 1 Supervision.

With respect to Lot 637, the depth of fill materials that were placed during the current construction phase (excluding top soiling activities) was less than 0.3 metres. As a consequence of the limited depth of fill materials, field density testing was not considered warranted. However, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential Slabs and Footings – Construction (2011), we are of the view that the bulk fill materials that were placed on this Lot by Rokon Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to May 2017.

Griffin Brown



FILL CERTIFICATE

PROJECT: Lot No 638 (as per Drawing No 8584E/6)
Rothwell (Stage 7), Truganina

CLIENT: Rokon Pty Ltd
1 / 75 River Street
RICHMOND VIC 3121

REPORT NO: 16531_638

DATE: 24/05/17

SUMMARY

Civil Geotechnical Services were engaged by Rokon Pty Ltd to provide inspection and testing services on the earthworks associated with the construction of the Rothwell (Stage 6) Truganina, in a manner which would satisfy the criteria for Level 1 Supervision as specified in Section 8.2 of AS 3798 - Guidelines on Earthworks for Commercial and Residential Developments - 2007. The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the area of fill placement.

A site inspection was conducted prior to any fill being placed on the allotments. On the completion of the earthworks and after examining the materials used, we are of the opinion that the filling procedure conducted by Rokon Pty Ltd during the construction of the estate satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project under Level 1 Supervision.

With respect to Lot 638, the depth of fill materials that were placed during the current construction phase (excluding top soiling activities) was less than 0.3 metres. As a consequence of the limited depth of fill materials, field density testing was not considered warranted. However, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential Slabs and Footings – Construction (2011), we are of the view that the bulk fill materials that were placed on this Lot by Rokon Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to May 2017.

Griffin Brown