

Works Inspection & Testing – Bulk Earthworks

AURORA STAGE 6

Prepared for **CCA Winslow**

Friday, 28th of June 2024





Document Information

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Laboratory Manager
Effective date 27/06/2024

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Date approved: 28/06/2024

DOCUMENT HISTORY

Version	Effective Date	Revision	Author	Reviewer	Recipient
01	27/06/2024	00	Mathew Tyrrell	Dean Stimpson	CCA Winslow

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1. Introduction & Scope of Works

Construction Sciences was commissioned by CCA Winslow to carry out the geotechnical inspection and testing required for a proposed development at Daleys Road, Ripley.

Inspection and testing of the earthworks were carried out between the 27/03/2024 and the 28/06/2024.

Works on this development were monitored in accordance with the scope of our commission as follows: -

Level 1: Earthworks stripping and filling was inspected and tested on a Level 1 basis, in accordance with AS3798.

Scope of **Level 1** responsibility:

“The primary objective of Level 1 Inspection and Testing is for the geotechnical inspection and testing authority (GITA) to be able to express an opinion on the compliance of the work. The GITA is responsible for ensuring that the inspection and testing is sufficient for this purpose.

The GITA needs to have competent personnel on site at all times while earthwork operations are undertaken. Such operations include the following:

- (a) Completion of removal of topsoil.*
- (b) Placing of imported or cut material.*
- (c) Compaction and adding/removal of moisture.*
- (d) Trenching and backfilling, where applicable.*
- (e) Test rolling.*
- (f) Testing.*

The superintendent should agree on a suitable inspection and testing plan prior to the commencement of the works”. reference AS3798 – Section 8.2



2. Specification Requirements

Earthworks on this development were inspected and tested in accordance with the specification of the design engineer, Colliers and to the specifications of the local authority, Ipswich City Council.

The following table is a summary of the basic compaction requirements for the project.

Testing procedures used to confirm that these requirements were met were all in accordance with Australian Standard test methods.

SPECIFICATIONS	
Item	Minimum Compaction Requirement
Earthworks Fill	95% Wet Density Ratio (Minimum)



3. Site Works – Bulk Earthworks

3.1 General

Site inspection was maintained in accordance with Level 1 requirements whilst earthworks were carried out.

The natural ground in the areas of filling generally comprised sandy clay with gravel.

The material used in the bulk earthworks filling was site won.

3.2 Compaction Control Testing

Compaction control testing via the Nuclear Densometer method was carried out at regular intervals throughout the placement of fill, in accordance with the minimum test frequency recommendations included in AS3798 “Guidelines on Earthworks for Commercial and Residential Developments”.

A total of twelve (12) field density tests were carried out during the earthworks. The average density ratio was recorded to be 99.8%

Approximate test locations are marked on attached sketch SK-01 and included in Appendix B.

Progressive photographs taken during bulk earthworks’ operations are included in Appendix A.



4. Conclusion

We confirm that:

- (a)** Our representative was in site attendance whilst earthworks filling was in progress between the 27/03/2024 and the 28/06/2024.
- (b)** Pre – fill ground preparation was carried out in accordance with the specifications and site instruction given.
- (c)** The structural filling placed to design levels during the term of our engagement on a “Level 1” basis can be termed “controlled filling”.
- (d)** The results of the compaction control testing indicate that the fill placed during the term of our site attendance, was compacted to at least the minimum specified density ratio.
- (e)** All test results pertaining to the bulk earthworks are included within Appendix B of this report.
- (f)** Lot certificates pertaining to the bulk earthworks of this project are included within Appendix C.

Mathew Tyrrell,
Laboratory Manager
for Construction Sciences



Appendix A

Site Works Photographs



**Construction
Sciences**

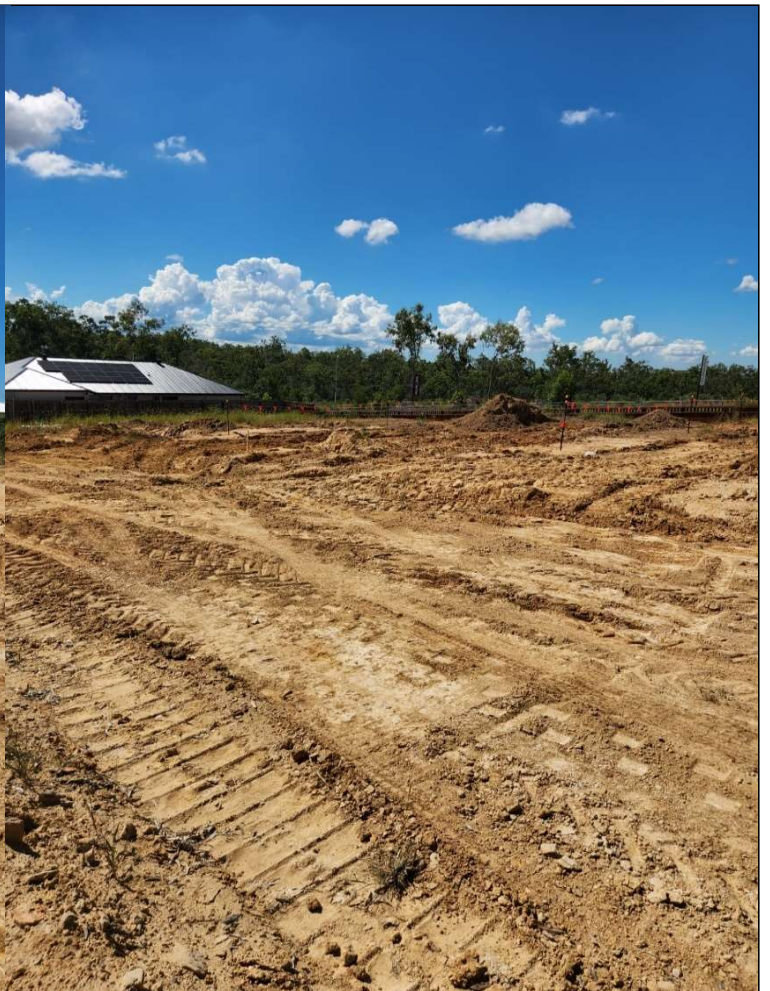
SITE WORKS PHOTOGRAPHS

CLIENT: CCA WINSLOW

PROJECT: AURORA STAGE 6

PROJECT:
P2662

ISSUED:
JUNE 2024



SITE WORKS PHOTOGRAPHS



CLIENT: CCA WINSLOW

PROJECT: AURORA STAGE 8

PROJECT :
P2662

ISSUED:
JUNE 2024



SITE WORKS PHOTOGRAPHS



**Construction
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CLIENT: CCA WINSLOW

PROJECT: AURORA STAGE 6

PROJECT :
P2662

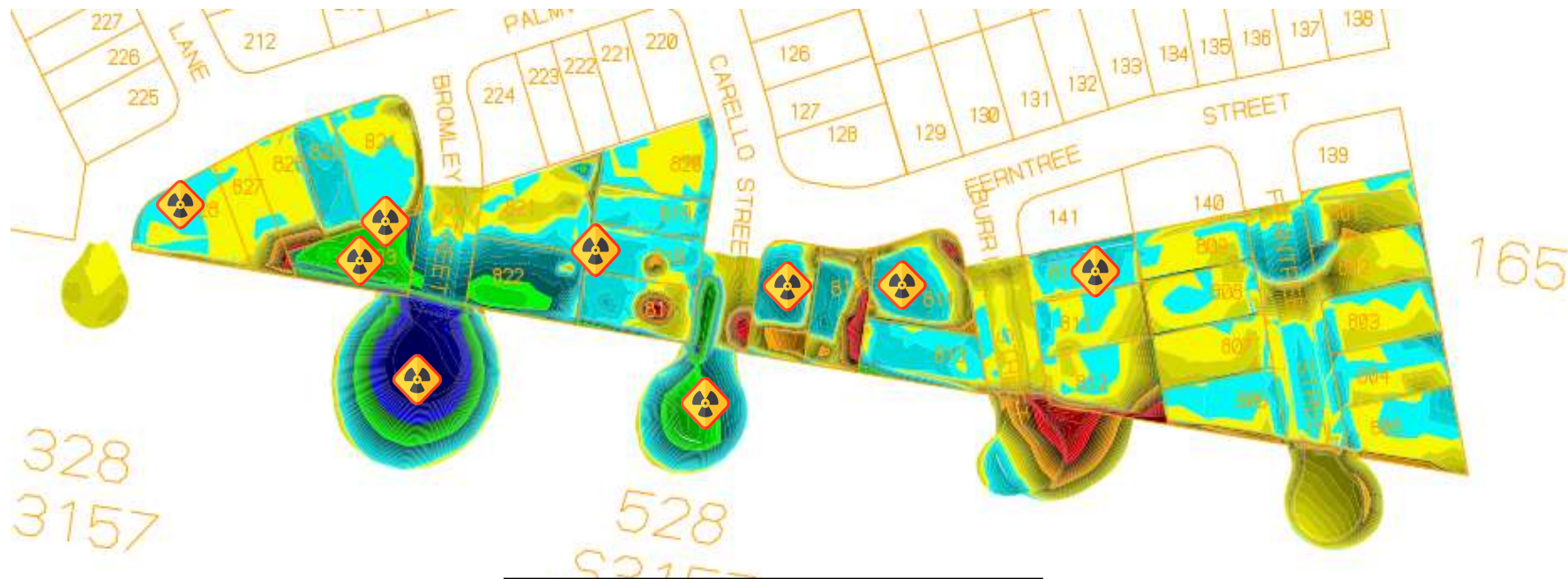
ISSUED:
JUNE 2024



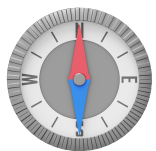
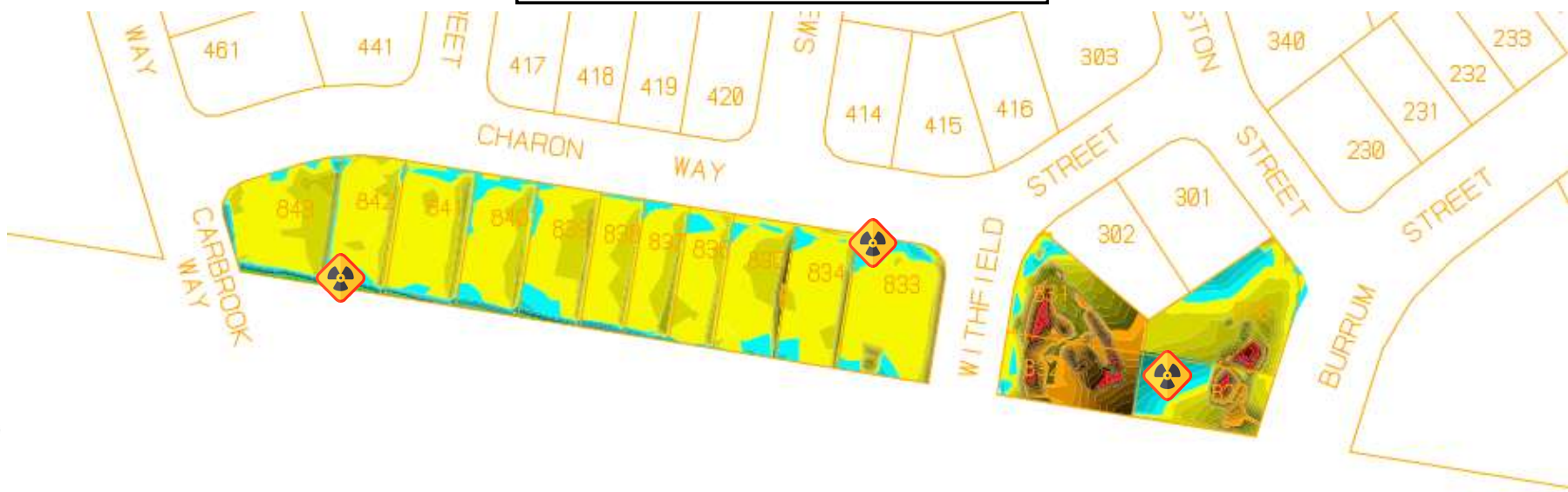


Appendix B

Bulk Earthworks



 DENOTES APPROX FIELD DENSITY TEST LOCATIONS



WET DENSITY RATIO REPORT

Client:	CCA Winslow	Report Number:	1979/R/161920-1
Client Address:	Building 4, G1,, 107 Miles Platting Road, Eight Mile Plains	Project Number:	1979/P/2662
Project:	Aurora Stg 6	Lot Number:	
Location:	Daleys Road, Ripley	Internal Test Request:	1979/T/78888
Supplied To:	n/a	Client Reference/s:	WR06294
Area Description:		Report Date / Page:	17/05/2024 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/444155	1979/S/444156	1979/S/444157	1979/S/444158
ID / Client ID	-	-	-	-
Lot Number	-	-	-	-
Date / Time Tested	13/05/2024 11:00	13/05/2024 11:10	13/05/2024 11:15	13/05/2024 11:20
Material Source	On-Site	On-Site	On-Site	On-Site
Material Type	Bulk Fill	Bulk Fill	Bulk Fill	Bulk Fill
Sampling Method	AS1289.1.2.1 CI 6.4b	AS1289.1.2.1 CI 6.4b	AS1289.1.2.1 CI 6.4b	AS1289.1.2.1 CI 6.4b
Depths: Test / Nom / Actual (mm)	275 / 300 / 300	275 / 300 / 300	275 / 300 / 300	275 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Easting m	476846	476858	476853	476847
Northing m	6939714	6939717	6939722	6939720
RL m	55.654	55.432	55.310	55.443
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	1	2	7	6
Compaction Sample Number	1979/S/444155	1979/S/444156	1979/S/444157	1979/S/444158
Sample Description	CH Clay	CH Sandy Clay	CH Sandy Clay	CH Sandy Clay with Gravel
Moisture Test Results:				
Field Moisture Content (%)	7.7	10.4	8.2	9.9
Adjusted / Moist. Variation (%)	2.0	2.0	2.0	2.0
Optimum Moisture Content (%)	9.5	12.5	10.5	12.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	79.5	83.0	79.5	81.0
Density Test Results:				
Field Wet Density (t/m³)	2.17	2.26	2.06	1.98
Adj/Peak Conv Wet Density (t/m³)	2.11	2.16	2.17	2.08
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	103.0	105.0	95.0	95.0

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing


 Accreditation Number: 1986
Corporate Site Number: 1979



 Approved Signatory: Dean Stimpson
Form ID: W5ASMRRep Rev 2



WET DENSITY RATIO REPORT

Client:	CCA Winslow	Report Number:	1979/R/161920-1
Client Address:	Building 4, G1,, 107 Miles Platting Road, Eight Mile Plains	Project Number:	1979/P/2662
Project:	Aurora Stg 6	Lot Number:	
Location:	Daleys Road, Ripley	Internal Test Request:	1979/T/78888
Supplied To:	n/a	Client Reference/s:	WR06294
Area Description:		Report Date / Page:	17/05/2024 Page 2 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/444159	1979/S/444160		
ID / Client ID	-	-		
Lot Number	-	-		
Date / Time Tested	13/05/2024 11:30	13/05/2024 11:35		
Material Source	On-Site	On-Site		
Material Type	Bulk Fill	Bulk Fill		
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b		
Depths: Test / Nom / Actual (mm)	275 / 300 / 300	275 / 300 / 300		
Standard or Modified	Standard	Standard		
Easting m	476845	476838		
Northing m	6939728	6939724		
RL m	55.532	55.715		
Test Fraction (mm)	< 19.0 mm	< 19.0 mm		
Sample Oversize (%)	0	3		
Compaction Sample Number	1979/S/444159	1979/S/444160		
Sample Description	CH Sandy Clay	CH Sandy Clay		
Moisture Test Results:				
Field Moisture Content (%)	9.6	9.4		
Adjusted / Moist. Variation (%)	2.5	2.0		
Optimum Moisture Content (%)	12.0	11.5		
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)		
Moisture Ratio (%)	80.5	81.5		
Density Test Results:				
Field Wet Density (t/m³)	2.03	1.97		
Adj/Peak Conv Wet Density (t/m³)	2.09	2.08		
Density Ratio Required (%)	95	95		
Hilf Density Ratio (%)	97.5	95.0		

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing 		 Approved Signatory: Dean Stimpson Form ID: W5ASMRRep Rev 2	
Accreditation Number:	1986		
Corporate Site Number:	1979		



WET DENSITY RATIO REPORT

Client:	CCA Winslow	Report Number:	1979/R/163790-1
Client Address:	Building 4, G1,, 107 Miles Platting Road, Eight Mile Plains	Project Number:	1979/P/2662
Project:	Aurora Stg 6	Lot Number:	
Location:	Daleys Road, Ripley	Internal Test Request:	1979/T/79538
Supplied To:	n/a	Client Reference/s:	WR004708
Area Description:		Report Date / Page:	29/05/2024 Page 1 of 1

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/448730	1979/S/448731	1979/S/448732	
ID / Client ID	-	-	-	
Lot Number	-	-	-	
Date / Time Tested	22/05/2024 14:25	22/05/2024 14:30	22/05/2024 14:35	
Material Source	On-Site	On-Site	On-Site	
Material Type	Bulk Fill	Bulk Fill	Bulk Fill	
Sampling Method	AS1289.1.2.1 CI 6.4b	AS1289.1.2.1 CI 6.4b	AS1289.1.2.1 CI 6.4b	
Depths: Test / Nom / Actual (mm)	250 / 300 / 275	250 / 300 / 275	250 / 300 / 275	
Standard or Modified	Standard	Standard	Standard	
Easting: m	476831	476826	476838	
Northing m	6939739	6939737	6939734	
RL: m	0.6m Below F/L	0.4m Below F/L	0.4m Below F/L	
Allotment:	Lot 823	Lot 823	Lot 823	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	
Sample Oversize (%)	0	7	0	
Compaction Sample Number	1979/S/448730	1979/S/448731	1979/S/448732	
Sample Description	CI Sandy Clay Brown	CI Clay Brown	CI Clay Brown	
Moisture Test Results:				
Field Moisture Content (%)	10.9	10.5	10.4	
Adjusted / Moist. Variation (%)	2.0	1.0	1.5	
Optimum Moisture Content (%)	13.0	12.0	11.5	
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	
Moisture Ratio (%)	84.5	89.0	89.0	
Density Test Results:				
Field Wet Density (t/m³)	2.10	2.14	2.06	
Adj/Peak Conv Wet Density (t/m³)	2.11	2.14	2.12	
Density Ratio Required (%)	95	95	95	
Hilf Density Ratio (%)	99.0	100.0	97.0	

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing 		Accreditation Number: 1986 Corporate Site Number: 1979	 Approved Signatory: Dean Stimpson Form ID: W5ASMRRep Rev 2
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WET DENSITY RATIO REPORT

Client:	CCA Winslow	Report Number:	1979/R/168750-1
Client Address:	Building 4, G1,, 107 Miles Platting Road, Eight Mile Plains	Project Number:	1979/P/2662
Project:	Aurora Stg 6	Lot Number:	-
Location:	Daleys Road, Ripley	Internal Test Request:	1979/T/82164
Supplied To:	n/a	Client Reference/s:	WR004748
Area Description:		Report Date / Page:	28/06/2024 Page 1 of 1

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/466696	1979/S/466697	1979/S/466698	
ID / Client ID	-	-	-	
Lot Number	-	-	-	
Date / Time Tested	27/06/2024 08:45	27/06/2024 08:45	27/06/2024 08:45	
Material Source	On-Site	On-Site	On-Site	
Material Type	Bulk Fill	Bulk Fill	Bulk Fill	
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	
Depths: Test / Nom / Actual (mm)	275 / 300 / 300	275 / 300 / 300	275 / 300 / 300	
Standard or Modified	Standard	Standard	Standard	
Easting: m	476938	476833	476840	
Northing m	6939737	6939740	6939745	
RL: m	F/L	F/L	F/L	
Allotment:	Lot 816	Lot 823	Lot 823	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	
Sample Oversize (%)	5	0	0	
Compaction Sample Number	1979/S/466696	1979/S/466697	1979/S/466698	
Sample Description	Sandy Clay	Sandy Clay	sandy clay	
Moisture Test Results:				
Field Moisture Content (%)	12.7	11.3	12.0	
Adjusted / Moist. Variation (%)	4.0	4.5	4.0	
Optimum Moisture Content (%)	17.0	16.0	16.0	
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	
Moisture Ratio (%)	75.0	71.5	74.5	
Density Test Results:				
Field Wet Density (t/m³)	2.02	2.02	2.05	
Adj/Peak Conv Wet Density (t/m³)	1.95	1.97	1.95	
Density Ratio Required (%)	95	95	95	
Hilf Density Ratio (%)	103.5	102.5	105.0	

Remarks

		Accredited for compliance with ISO/IEC 17025 – Testing Accreditation Number: 1986 Corporate Site Number: 1979	 Approved Signatory: Dean Stimpson Form ID: W5ASMRRep Rev 2
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Appendix C

Lot Certificates

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 801, Daleys Road, Ripley (Aurora Stage 6)**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

This indicates that the fill was compacted to at least the minimum density ratio in accordance with the specification requirements and it is considered that the fill may be deemed to be "controlled fill" in accordance with AS2870-2011 "Residential Slabs & Footings".

It may be that non-structural topsoil was placed on the block after completion of the structural fill. This would need to be removed as part of the site preparation for building and driveway construction.

I trust this meets your requirements. Please do not hesitate to contact me if you have any queries.

Yours faithfully



Mathew Tyrrell
Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 802, Daleys Road, Ripley (Aurora Stage 6)**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

This indicates that the fill was compacted to at least the minimum density ratio in accordance with the specification requirements and it is considered that the fill may be deemed to be "controlled fill" in accordance with AS2870-2011 "Residential Slabs & Footings".

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I trust this meets your requirements. Please do not hesitate to contact me if you have any queries.

Yours faithfully



Mathew Tyrrell
Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 803, Daleys Road, Ripley (Aurora Stage 6)**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

This indicates that the fill was compacted to at least the minimum density ratio in accordance with the specification requirements and it is considered that the fill may be deemed to be "controlled fill" in accordance with AS2870-2011 "Residential Slabs & Footings".

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Yours faithfully



Mathew Tyrrell
Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 804, Daleys Road, Ripley (Aurora Stage 6)**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

This indicates that the fill was compacted to at least the minimum density ratio in accordance with the specification requirements and it is considered that the fill may be deemed to be "controlled fill" in accordance with AS2870-2011 "Residential Slabs & Footings".

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Yours faithfully



Mathew Tyrrell
Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 805, Daleys Road, Ripley (Aurora Stage 6)**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

This indicates that the fill was compacted to at least the minimum density ratio in accordance with the specification requirements and it is considered that the fill may be deemed to be "controlled fill" in accordance with AS2870-2011 "Residential Slabs & Footings".

It may be that non-structural topsoil was placed on the block after completion of the structural fill. This would need to be removed as part of the site preparation for building and driveway construction.

I trust this meets your requirements. Please do not hesitate to contact me if you have any queries.

Yours faithfully



Mathew Tyrrell
Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 806, Daleys Road, Ripley (Aurora Stage 6)**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

This indicates that the fill was compacted to at least the minimum density ratio in accordance with the specification requirements and it is considered that the fill may be deemed to be "controlled fill" in accordance with AS2870-2011 "Residential Slabs & Footings".

It may be that non-structural topsoil was placed on the block after completion of the structural fill. This would need to be removed as part of the site preparation for building and driveway construction.

I trust this meets your requirements. Please do not hesitate to contact me if you have any queries.

Yours faithfully



Mathew Tyrrell
Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 807, Daleys Road, Ripley (Aurora Stage 6)**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

This indicates that the fill was compacted to at least the minimum density ratio in accordance with the specification requirements and it is considered that the fill may be deemed to be "controlled fill" in accordance with AS2870-2011 "Residential Slabs & Footings".

It may be that non-structural topsoil was placed on the block after completion of the structural fill. This would need to be removed as part of the site preparation for building and driveway construction.

I trust this meets your requirements. Please do not hesitate to contact me if you have any queries.

Yours faithfully



Mathew Tyrrell
Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 808, Daleys Road, Ripley (Aurora Stage 6)**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

This indicates that the fill was compacted to at least the minimum density ratio in accordance with the specification requirements and it is considered that the fill may be deemed to be "controlled fill" in accordance with AS2870-2011 "Residential Slabs & Footings".

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Yours faithfully



Mathew Tyrrell
Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 809, Daleys Road, Ripley (Aurora Stage 6)**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

This indicates that the fill was compacted to at least the minimum density ratio in accordance with the specification requirements and it is considered that the fill may be deemed to be "controlled fill" in accordance with AS2870-2011 "Residential Slabs & Footings".

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Yours faithfully



Mathew Tyrrell
Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 810, Daleys Road, Ripley (Aurora Stage 6)**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

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It may be that non-structural topsoil was placed on the block after completion of the structural fill. This would need to be removed as part of the site preparation for building and driveway construction.

I trust this meets your requirements. Please do not hesitate to contact me if you have any queries.

Yours faithfully



Mathew Tyrrell
Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 811, Daleys Road, Ripley (Aurora Stage 6)**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

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Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 812, Daleys Road, Ripley (Aurora Stage 6)**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

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Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 813, Daleys Road, Ripley (Aurora Stage 6)**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

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Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 814, Daleys Road, Ripley (Aurora Stage 6)**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

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Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 815, Daleys Road, Ripley (Aurora Stage 6)**

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Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 816, Daleys Road, Ripley (Aurora Stage 6)**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

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For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 817, Daleys Road, Ripley (Aurora Stage 6)**

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Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 818, Daleys Road, Ripley (Aurora Stage 6)**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

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Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 819, Daleys Road, Ripley (Aurora Stage 6)**

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Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 820, Daleys Road, Ripley (Aurora Stage 6)**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

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Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 821, Daleys Road, Ripley (Aurora Stage 6)**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

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For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 822, Daleys Road, Ripley (Aurora Stage 6)**

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For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 823, Daleys Road, Ripley (Aurora Stage 6)**

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For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 824, Daleys Road, Ripley (Aurora Stage 6)**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

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Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 825, Daleys Road, Ripley (Aurora Stage 6)**

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Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 826, Daleys Road, Ripley (Aurora Stage 6)**

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Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 827, Daleys Road, Ripley (Aurora Stage 6)**

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Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 828, Daleys Road, Ripley (Aurora Stage 6)**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

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For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 829, Daleys Road, Ripley (Aurora Stage 6)**

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For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 830, Daleys Road, Ripley (Aurora Stage 6)**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

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Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 831, Daleys Road, Ripley (Aurora Stage 6)**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

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Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 832, Daleys Road, Ripley (Aurora Stage 6)**

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For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

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**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 833, Daleys Road, Ripley (Aurora Stage 6)**

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For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 834, Daleys Road, Ripley (Aurora Stage 6)**

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Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 835, Daleys Road, Ripley (Aurora Stage 6)**

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Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 836, Daleys Road, Ripley (Aurora Stage 6)**

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Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 837, Daleys Road, Ripley (Aurora Stage 6)**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

This indicates that the fill was compacted to at least the minimum density ratio in accordance with the specification requirements and it is considered that the fill may be deemed to be "controlled fill" in accordance with AS2870-2011 "Residential Slabs & Footings".

It may be that non-structural topsoil was placed on the block after completion of the structural fill. This would need to be removed as part of the site preparation for building and driveway construction.

I trust this meets your requirements. Please do not hesitate to contact me if you have any queries.

Yours faithfully



Mathew Tyrrell
Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 838, Daleys Road, Ripley (Aurora Stage 6)**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

This indicates that the fill was compacted to at least the minimum density ratio in accordance with the specification requirements and it is considered that the fill may be deemed to be "controlled fill" in accordance with AS2870-2011 "Residential Slabs & Footings".

It may be that non-structural topsoil was placed on the block after completion of the structural fill. This would need to be removed as part of the site preparation for building and driveway construction.

I trust this meets your requirements. Please do not hesitate to contact me if you have any queries.

Yours faithfully



Mathew Tyrrell
Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 839, Daleys Road, Ripley (Aurora Stage 6)**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

This indicates that the fill was compacted to at least the minimum density ratio in accordance with the specification requirements and it is considered that the fill may be deemed to be "controlled fill" in accordance with AS2870-2011 "Residential Slabs & Footings".

It may be that non-structural topsoil was placed on the block after completion of the structural fill. This would need to be removed as part of the site preparation for building and driveway construction.

I trust this meets your requirements. Please do not hesitate to contact me if you have any queries.

Yours faithfully



Mathew Tyrrell
Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 840, Daleys Road, Ripley (Aurora Stage 6)**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

This indicates that the fill was compacted to at least the minimum density ratio in accordance with the specification requirements and it is considered that the fill may be deemed to be "controlled fill" in accordance with AS2870-2011 "Residential Slabs & Footings".

It may be that non-structural topsoil was placed on the block after completion of the structural fill. This would need to be removed as part of the site preparation for building and driveway construction.

I trust this meets your requirements. Please do not hesitate to contact me if you have any queries.

Yours faithfully



Mathew Tyrrell
Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 841, Daleys Road, Ripley (Aurora Stage 6)**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

This indicates that the fill was compacted to at least the minimum density ratio in accordance with the specification requirements and it is considered that the fill may be deemed to be "controlled fill" in accordance with AS2870-2011 "Residential Slabs & Footings".

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I trust this meets your requirements. Please do not hesitate to contact me if you have any queries.

Yours faithfully



Mathew Tyrrell
Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 842, Daleys Road, Ripley (Aurora Stage 6)**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

This indicates that the fill was compacted to at least the minimum density ratio in accordance with the specification requirements and it is considered that the fill may be deemed to be "controlled fill" in accordance with AS2870-2011 "Residential Slabs & Footings".

It may be that non-structural topsoil was placed on the block after completion of the structural fill. This would need to be removed as part of the site preparation for building and driveway construction.

I trust this meets your requirements. Please do not hesitate to contact me if you have any queries.

Yours faithfully



Mathew Tyrrell
Laboratory Manager
For Construction Sciences

Project Ref: 1979/P/2662

Contact: Joshua Pholi

28/06/2024

CCA Winslow
Building 4; G1; 107 Miles Platting Road
Eight Mile Plains, QLD 4113

Dear Sir/Madam,

**RE: INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
Lot 843, Daleys Road, Ripley (Aurora Stage 6)**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

This indicates that the fill was compacted to at least the minimum density ratio in accordance with the specification requirements and it is considered that the fill may be deemed to be "controlled fill" in accordance with AS2870-2011 "Residential Slabs & Footings".

It may be that non-structural topsoil was placed on the block after completion of the structural fill. This would need to be removed as part of the site preparation for building and driveway construction.

I trust this meets your requirements. Please do not hesitate to contact me if you have any queries.

Yours faithfully



Mathew Tyrrell
Laboratory Manager
For Construction Sciences

Located across Australia and New Zealand

QLD

Airlie
Beenleigh
Brisbane (Acacia Ridge)
Brisbane (Beenleigh)
Brisbane (Brendale)
Brisbane (Petrie)
Cairns
Emerald
Gladstone
Gold Coast
Mackay
Moranbah
Rockhampton
Petrie
Sunshine Coast
Toowoomba
Townsville

NSW

Ballina
Coffs Harbour
Grafton
Lynwood
Newcastle
Sydney (Glendenning)
Sydney (Seven Hills)
Sydney (St Peters)
Taree
Wollongong

VIC

Ararat
Bendigo
Echuca
Melbourne (Chadstone)
Melbourne (Keysborough)
Melbourne (Pakenham)
Melbourne (Oaklands Junction)
Melbourne (Sunshine West)
Traralgon

WA

Bunbury
Kalgoorlie
Newman
Perth
Port Hedland

SA

Adelaide
Port Augusta

NT

Darwin

ACT

Canberra

NZ

Wellington