

WORKS INSPECTION & TESTING Bulk Earthworks

PROPOSED
RESIDENTIAL
DEVELOPMENT

**87-93 KOPLICK
ROAD, PARK RIDGE**

JOB NO: P1925 comp01



Prepared for CCA Winslow
06th June 2022

Document Information

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Project Name Proposed Residential Development – 87-93 Koplick Road, Park Ridge

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INTRODUCTION

Construction Sciences was commissioned by **CCA Winslow** to carry out the geotechnical inspection and testing required for the proposed development at Park Ridge, which was carried out between 17th January 2022 and 3rd June 2022.

SCOPE OF WORKS

The Earthworks on this development was monitored in accordance with the scope of our commission as follows:

Level 1: Bulk earthworks stripping and filling was inspected and tested on a Level 1 basis, in accordance with AS 3798-2007.

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

SPECIFICATION REQUIREMENTS

Earthworks on this development was inspected and tested in accordance with the specification of the design engineer, **Peak Urban** and to the specifications of the local authority, **Logan City Council**.

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

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

SPECIFICATIONS	
<i>Item</i>	<i>Minimum Compaction Requirement</i>
<i>Bulk Earthworks Fill</i>	<i>95% Wet Density Ratio - Standard</i>

SITE WORKS - BULK EARTHWORKS

General: Full time site inspection was maintained in accordance with Level 1 requirements whilst earthworks were carried out on this development. Fill areas included residential allotments, roads and embankments.

The areas to be filled were stripped and proof rolled in accordance with the specification requirements. Areas displaying instability were generally excavated until competent conditions were encountered. Benching was provided on slopes where filling was to be placed.

The natural ground in the areas of filling generally comprised gravelly to sandy CLAYS and clayey to gravelly SANDS.

The material used in the bulk earthworks filling was sourced from site cutting to design levels & imported material.

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".

All test results are included in Appendix A. A summary of the test results is included as Table 1. A total of 40 field density tests were carried out throughout the earthworks. The average wet density ratio was recorded to be 99.0%. The maximum wet density ratio was 103.0% and minimum was 95.5%.

CONCLUSION

We confirm that:

- (a) Our representative was in full time site attendance whilst bulk earthworks filling was in progress between 17th January 2022 and 3rd June 2022 at 87-93 Koplick Road, Park Ridge.
- (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 wet density ratio.
- (e) All test results pertaining to the development are included within appendix A of this report.



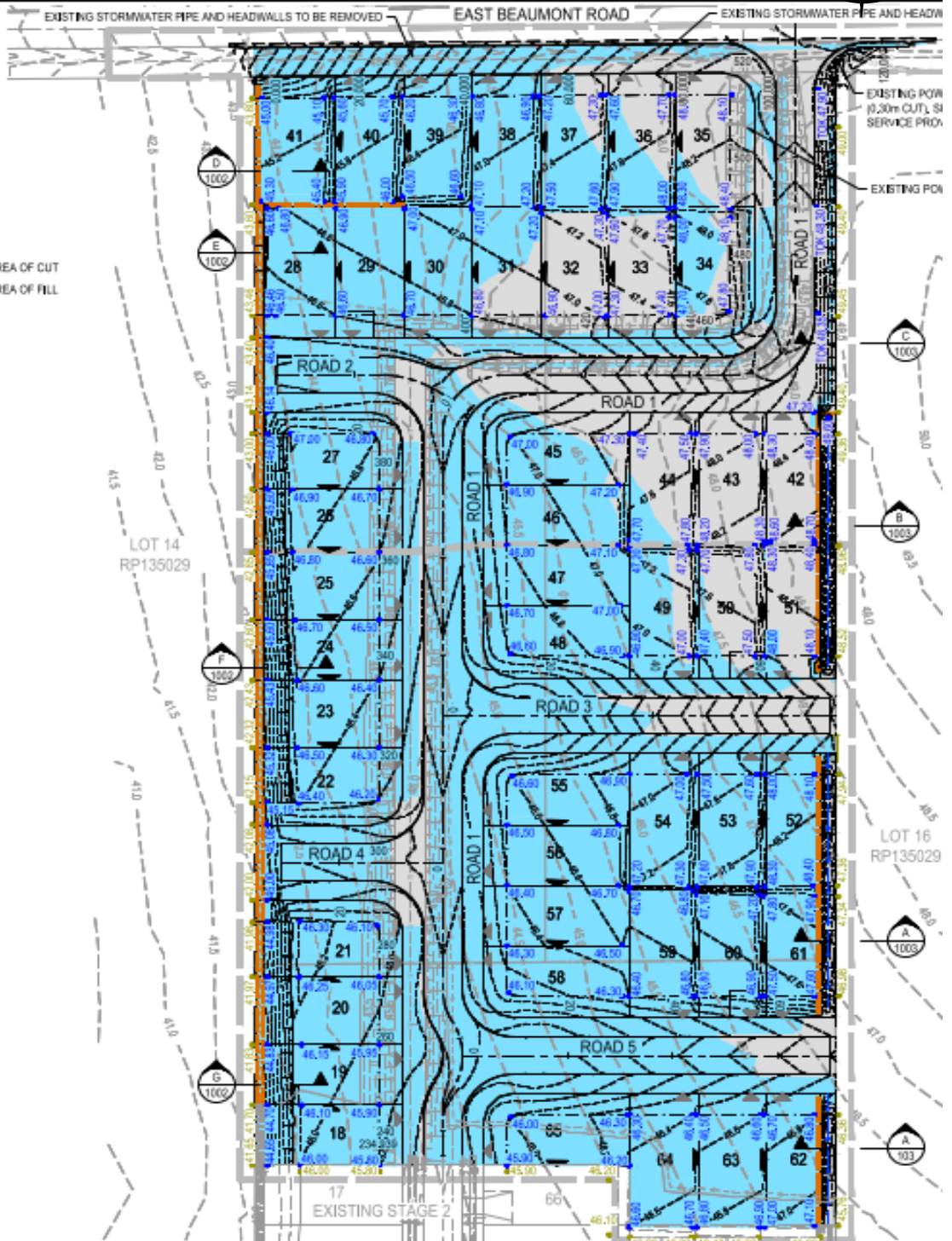
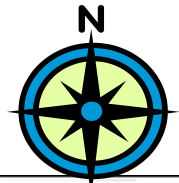
WAYNE GORMAN
LABORATORY MANAGER
Construction Sciences

Bulk Fill



Client: CCA Winslow

Project: 87-93 Koplcik Road

Sample Client Reference	Sample Number	Sample Date	Location 1	Location 2	Location 3	Location 4	Wet Density Ratio	Moisture Ratio
EW-01	1979/S/177806	19/01/2022	Lot 36	N/W Corner	5m S, 2m E	0.5m Below F/L	99.5	107.5
EW-02	1979/S/177807	19/01/2022	Lot 31	N/W Corner	15m S, 8m E	0.6m Below F/L	100	100
EW-03	1979/S/177808	19/01/2022	Lot 62	N/W Corner	12m S, 3m E	0.7m Below F/L	97	100
EW-04	1979/S/177809	19/01/2022	Lot 63	N/W Corner	7m S, 2m E	0.5m Below F/L	98.5	101
EW-05	1979/S/177810	19/01/2022	Lot 53	N/W Corner	12m S, 10m E	0.3m Below F/L	97.5	98
EW-06	1979/S/177811	19/01/2022	Lot 64	N/W Corner	5m S, 2m E	0.45m Below F/L	96.5	101
EW-07	1979/S/178086	24/01/2022	Lot 38	NW Corner	7m S, 3m E	0.3m Below F/L	95.5	98.5
EW-08	1979/S/178087	24/01/2022	Lot 32	NW Corner	7m S, 4m E	0.5m Below F/L	97	100
EW-09	1979/S/178376	31/01/2022	Lot 35	O/S NW corner	8m S, 5 m W	0.4m below finish level	96	84
EW-10	1979/S/178377	31/01/2022	Lot 37	O/S NW corner	10m S, 3m W	0.1m below finish level	100.5	88
EW-11	1979/S/179596	18/02/2022	Lot 58	O/S from NW cnr	20m E, 10m S	0.3m Below F/L	101.5	86.5
EW-12	1979/S/179597	18/02/2022	Lot 60	O/S from NW cnr	7m E, 20m S	0.3m Below F/L	100	83
EW-13	1979/S/179598	18/02/2022	Lot 63	O/S from NW cnr	5m E, 15m S	0.6m Below F/L	101.5	85
EW-14	1979/S/179599	18/02/2022	Lot 64	O/S from NW cnr	1m E, 7m S	0.6m Below F/L	97	85.5
EW-15	1979/S/179732	21/02/2022	Lot 56	O/S from NW Cnr	7 m E,5 m S	0.3m Below F/L	100.5	77.5
EW-16	1979/S/179733	21/02/2022	Lot 59	O/S from NW Cnr	4m E, 10 m S	0.3m Below F/L	103	78.5
EW-17	1979/S/179734	21/02/2022	Lot 46	O/S from NW Cnr	8m E, 2m S	F/L	100	81
EW-18	1979/S/179735	21/02/2022	Lot 48	O/S from NW Cnr	5m E, 3m S	F/L	98	81.5
EW-19	1979/S/179736	21/02/2022	Lot 57	O/S from NW Cnr	3m E,10mS	F/L	97	78
EW-20	1979/S/179737	21/02/2022	Lot 59	O/S from NW Cnr	2mE, 10 m S	F/L	96.5	86
EW-21	1979/S/179738	21/02/2022	Lot 65	O/S from NW Cnr	8m E, 2m s	F/L	98.5	79
EW-22	1979/S/179739	21/02/2022	Lot 63	O/S from NW Cnr	2m E, 10m S	F/L	99	77.5
EW-23	1979/S/179740	21/02/2022	Lot 41	O/S from NW Cnr	4m E,7m S	F/L	97	78
EW-24	1979/S/179741	21/02/2022	Lot 29	O/S from NW Cnr	2m E,11m S	F/L	100	77.5
EW-25	1979/S/183388	21/04/2022	Lot 27	N/E Corner	7m S, 13m W	F/L	100	86.5
EW-26	1979/S/183389	21/04/2022	Lot 25	N/E Corner	4m S, 7m W	F/L	101	85.5
EW-27	1979/S/183390	21/04/2022	Lot 23	N/E Corner	4m S, 8m W	F/L	100	87
EW-28	1979/S/183391	21/04/2022	Lot 21	N/E Corner	7m S, 11m W	F/L	97.5	92
EW-29	1979/S/183392	21/04/2022	Lot 20	N/E Corner	6m S, 9m W	F/L	98.5	100
EW-30	1979/S/183393	21/04/2022	Lot 19	N/E Corner	5m S, 9m W	F/L	98.5	87
EW-31	1979/S/184713	4/05/2022	Lot 53	N/W Corner	6m S, 3m E	F/L	96.5	91.5
EW-32	1979/S/184714	4/05/2022	Lot 55	N/W Corner	9m S, 4m E	F/L	97	99.5
EW-33	1979/S/184715	4/05/2022	Lot 57	N/W Corner	8m S, 13m E	F/L	99	99.5
EW-34	1979/S/184716	4/05/2022	Lot 58	N/W Corner	5m S, 10m E	F/L	99.5	92
EW-35	1979/S/184717	20/05/2022	Lot 59	N/E Corner	9m S, 3m W	F/L	100	92
EW-36	1979/S/184718	20/05/2022	Lot 61	N/E Corner	8m S, 4m W	F/L	97.5	99.5
EW-37	1979/S/184719	20/05/2022	Lot 62	N/E Corner	3m S, 4m W	F/L	98	93
EW-38	1979/S/184720	20/05/2022	Lot 63	N/E Corner	7m S, 4m W	F/L	97.5	87
EW-39	1979/S/184721	20/05/2022	Lot 64	N/W Corner	6m S, 5m E	F/L	97.5	92.5
EW-40	1979/S/184722	20/05/2022	Lot 65	N/E Corner	3m S, 7m W	F/L	97	102



VOLUMES:
 CUT: 1330m³
 FILL: 26990m³
 (BALANCE = 25357m³ IMPORT)
 *VOLUMES ACCOUNT FOR STAGE 1 AND 2 EXTERNAL WATER MAIN BUNDING AS BEING IN PLACE.

 PROPOSED AREA OF CUT
 PROPOSED AREA OF FILL



CLIENT:	CCA Winslow	JOB No.:	P 1925
PROJECT:	87-93 Koplick Road, Park Ridge	SKETCH No.:	SK 01
TEST ITEM:	Site Plan	DATE ISSUED:	06/06/2022

APPENDIX

A

BULK EARTHWORKS





WET DENSITY RATIO REPORT

Client: CCA Winslow Client Address: 1587 Ipswich Road, Rocklea Project: 87 Koplick Road Location: Chambers Flat Supplied To: n/a Area Description:	Report Number: 1979/R/64239-1 Project Number: 1979/P/1925 Lot Number: Various Internal Test Request: 1979/T/34967 Client Reference/s: WR5109 Report Date / Page: 3/02/2022 Page 1 of 1
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/178086	1979/S/178087		
ID / Client ID	-	-		
Lot Number	38	32		
Date / Time Tested	24/01/2022 10:15	24/01/2022 10:30		
Material Source	Imported Material	Imported Material		
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		
Location	Lot 38	Lot 32		
	NW Corner	NW Corner		
	7m S, 3m E	7m S, 4m E		
Level	0.3m Below F/L	0.5m Below F/L		
Test Fraction (mm)	< 19.0 mm	< 19.0 mm		
Sample Oversize (%)	0	0		
Compaction Sample Number	1979/S/178086	1979/S/178087		
Sample Description	Sandy CLAY - Brown	Sandy CLAY - Brown		
Moisture Test Results:				
Field Moisture Content (%)	13.1	13.7		
Adjusted / Moisture Variation (%)	0.0	0.0		
Optimum Moisture Content (%)	13.5	13.5		
Moisture Variation from OMC	(Drier than OMC)	(at OMC)		
Moisture Ratio (%)	98.5	100.0		
Density Test Results:				
Field Wet Density (t/m ³)	2.11	2.12		
Adj/Peak Conv Wet Density (t/m ³)	2.20	2.19		
Density Ratio Required (%)	95	95		
Hilf Density Ratio (%)	95.5	97.0		

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
	Approved Signatory: Dean Stimpson Form ID: W5ASRep Rev 2
Accreditation Number: 1986 Corporate Site Number: 1979	



WET DENSITY RATIO REPORT

Client: CCA Winslow Client Address: 1587 Ipswich Road, Rocklea Project: 87 Koplick Road Location: Chambers Flat Supplied To: n/a Area Description:	Report Number: 1979/R/64258-1 Project Number: 1979/P/1925 Lot Number: Internal Test Request: 1979/T/34929 Client Reference/s: WR5107 Report Date / Page: 4/02/2022 Page 1 of 2
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/177806	1979/S/177807	1979/S/177808	1979/S/177809
ID / Client ID	-	-	-	-
Lot Number	-	-	-	-
Date / Time Tested	19/01/2022 10:20	19/01/2022 10:30	19/01/2022 12:05	19/01/2022 12:15
Material Source	On-Site	On-Site	Imported	Imported
Material Type	Bulk Fill	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	AS1289.1.2.1 Cl 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
Location	Lot 36 N/W Corner 5m S, 2m E	Lot 31 N/W Corner 15m S, 8m E	Lot 62 N/W Corner 12m S, 3m E	Lot 63 N/W Corner 7m S, 2m E
Level	0.5m Below F/L	0.6m Below F/L	0.7m Below F/L	0.5m Below F/L
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/177806	1979/S/177807	1979/S/177808	1979/S/177809
Sample Description	Sand-Light Brown	Sand-Light Brown	Sandy/Clay- Brown	Sandy/Clay- Brown
Moisture Test Results:				
Field Moisture Content (%)	4.3	4.8	13.1	13.3
Adjusted / Moisture Variation (%)	-0.5	0.0	0.0	0.0
Optimum Moisture Content (%)	4.0	5.0	13.0	13.0
Moisture Variation from OMC	(Wetter than OMC)	(at OMC)	(at OMC)	(Wetter than OMC)
Moisture Ratio (%)	107.5	100.0	100.0	101.0
Density Test Results:				
Field Wet Density (t/m ³)	1.83	1.85	2.09	2.12
Adj/Peak Conv Wet Density (t/m ³)	1.84	1.85	2.16	2.15
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	99.5	100.0	97.0	98.5

Remarks

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 Accreditation Number: 1986 Corporate Site Number: 1979	Approved Signatory: Dean Stimpson Form ID: W5ASRep Rev 2



WET DENSITY RATIO REPORT

Client: CCA Winslow Client Address: 1587 Ipswich Road, Rocklea Project: 87 Koplick Road Location: Chambers Flat Supplied To: n/a Area Description:	Report Number: 1979/R/64258-1 Project Number: 1979/P/1925 Lot Number: Internal Test Request: 1979/T/34929 Client Reference/s: WR5107 Report Date / Page: 4/02/2022 Page 2 of 2
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/177810	1979/S/177811		
ID / Client ID	-	-		
Lot Number	-	-		
Date / Time Tested	19/01/2022 12:25	19/01/2022 12:35		
Material Source	Imported	Imported		
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		
Location	Lot 53	Lot 64		
	N/W Corner	N/W Corner		
	12m S, 10m E	5m S, 2m E		
Level	0.3m Below F/L	0.45m Below F/L		
Test Fraction (mm)	< 19.0 mm	< 19.0 mm		
Sample Oversize (%)	0	0		
Compaction Sample Number	1979/S/177810	1979/S/177811		
Sample Description	Sandy/Clay-Brown	Sandy/Clay-Grey		
Moisture Test Results:				
Field Moisture Content (%)	14.5	12.7		
Adjusted / Moisture Variation (%)	0.5	0.0		
Optimum Moisture Content (%)	15.0	12.5		
Moisture Variation from OMC	(Drier than OMC)	(Wetter than OMC)		
Moisture Ratio (%)	98.0	101.0		
Density Test Results:				
Field Wet Density (t/m ³)	2.09	2.12		
Adj/Peak Conv Wet Density (t/m ³)	2.15	2.20		
Density Ratio Required (%)	95	95		
Hilf Density Ratio (%)	97.5	96.5		

Remarks

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	Approved Signatory: Dean Stimpson Form ID: W5ASRep Rev 2
Accreditation Number: 1986 Corporate Site Number: 1979	



WET DENSITY RATIO REPORT

Client: CCA Winslow Client Address: 1587 Ipswich Road, Rocklea Project: 87 Koplick Road Location: Chambers Flat Component: LOT FILL Area Description:	Report Number: 1979/R/64271-1 Project Number: 1979/P/1925 Lot Number: Various Internal Test Request: 1979/T/35036 Client Reference/s: WR5116 Report Date / Page: 7/02/2022 Page 1 of 1
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/178376	1979/S/178377		
ID / Client ID	-	-		
Lot Number	35	37		
Date / Time Tested	31/01/2022 13:45	31/01/2022 13:55		
Material Source	Imported	Imported		
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		
Location	Lot 35	Lot 37		
	O/S NW corner	O/S NW corner		
	8m S, 5 m W	10m S, 3m W		
Level	0.4m below finish level	0.1m below finish level		
Test Fraction (mm)	< 19.0 mm	< 19.0 mm		
Sample Oversize (%)	0	0		
Compaction Sample Number	1979/S/178376	1979/S/178377		
Sample Description	Sandy CLAY - Brown	Sandy CLAY - Brown		
Moisture Test Results:				
Field Moisture Content (%)	11.0	11.5		
Adjusted / Moisture Variation (%)	2.0	1.5		
Optimum Moisture Content (%)	13.0	13.0		
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)		
Moisture Ratio (%)	84.0	88.0		
Density Test Results:				
Field Wet Density (t/m ³)	2.02	2.08		
Adj/Peak Conv Wet Density (t/m ³)	2.10	2.08		
Density Ratio Required (%)	95	95		
Hilf Density Ratio (%)	96.0	100.5		

Remarks

<div style="text-align: center;">Accredited for compliance with ISO/IEC 17025 – Testing</div>  <p>Accreditation Number: 1986 Corporate Site Number: 1979</p>	 Approved Signatory: Dean Stimpson Form ID: W5ASRep Rev 2
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WET DENSITY RATIO REPORT

Client: CCA Winslow Client Address: 1587 Ipswich Road, Rocklea Project: 87 Koplick Road Location: Chambers Flat Component: Bulk Earthworks Area Description: Stages 3-4	Report Number: 1979/R/64575-1 Project Number: 1979/P/1925 Lot Number: - Internal Test Request: 1979/T/35283 Client Reference/s: WR5221 Report Date / Page: 25/02/2022 Page 1 of 1
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/179596	1979/S/179597	1979/S/179598	1979/S/179599
ID / Client ID	-	-	-	-
Lot Number	-	-	-	-
Date / Time Tested	18/02/2022 10:30	18/02/2022 10:40	18/02/2022 10:50	18/02/2022 11:00
Material Source	Imported Material	Imported Material	Imported Material	Imported Material
Material Type	Bulk Fill	Bulk Fill	Bulk Fill	Bulk Fill
Sampling Method	AS1289.1.2.1 Cl 6.4a	AS1289.1.2.1 Cl 6.4a	AS1289.1.2.1 Cl 6.4a	AS1289.1.2.1 Cl 6.4a
Depths: Test / Nom / Actual (mm)	275 / 300 / 300	275 / 300 / 300	275 / 300 / 300	275 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Location	Lot 58	Lot 60	Lot 63	Lot 64
	O/S from NW cnr	O/S from NW cnr	O/S from NW cnr	O/S from NW cnr
	20m E, 10m S	7m E, 20m S	5m E, 15m S	1m E, 7m S
Level	0.3m Below F/L	0.3m Below F/L	0.6m Below F/L	0.6m Below F/L
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/179596	1979/S/179597	1979/S/179598	1979/S/179599
Sample Description	Clayey SAND - Light Brown	Clayey SAND - Light Brown	Clayey SAND - Light Brown	Clayey SAND - Light Brown
Moisture Test Results:				
Field Moisture Content (%)	7.7	6.4	7.3	6.5
Adjusted / Moisture Variation (%)	1.0	1.5	1.5	1.0
Optimum Moisture Content (%)	9.0	7.5	8.5	7.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	86.5	83.0	85.0	85.5
Density Test Results:				
Field Wet Density (t/m ³)	2.14	2.09	2.12	2.10
Adj/Peak Conv Wet Density (t/m ³)	2.11	2.09	2.09	2.16
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	101.5	100.0	101.5	97.0

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
	Approved Signatory: Dean Stimpson Form ID: W5ASRep Rev 2
Accreditation Number: 1986 Corporate Site Number: 1979	



WET DENSITY RATIO REPORT

Client: CCA Winslow Client Address: 1587 Ipswich Road, Rocklea Project: 87 Koplick Road Location: Chambers Flat Component: Bulk Earthworks Area Description: Stages 3-4	Report Number: 1979/R/64682-1 Project Number: 1979/P/1925 Lot Number: - Internal Test Request: 1979/T/35299 Client Reference/s: WR5139 Report Date / Page: 7/03/2022 Page 1 of 3
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/179732	1979/S/179733	1979/S/179734	1979/S/179735
ID / Client ID	-	-	-	-
Lot Number	-	-	-	-
Date / Time Tested	21/02/2022 10:00	21/02/2022 10:05	21/02/2022 10:10	21/02/2022 10:20
Material Source	Imported	Imported	Imported	Imported
Material Type	Bulk Fill	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	AS1289.1.2.1 Cl 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
Location	Lot 56 O/S from NW Cnr 7 m E, 5 m S	Lot 59 O/S from NW Cnr 4m E, 10 m S	Lot 46 O/S from NW Cnr 8m E, 2m S	Lot 48 O/S from NW Cnr 5m E, 3m S
Level	0.3m Below F/L	0.3m Below F/L	F/L	F/L
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/179732	1979/S/179733	1979/S/179734	1979/S/179735
Sample Description	Clayey SAND - Brown	Clayey SAND - Light Brown	Clayey SAND - Light Brown	Clayey SAND - Light Brown
Moisture Test Results:				
Field Moisture Content (%)	6.6	7.0	7.2	8.7
Adjusted / Moisture Variation (%)	2.0	2.0	2.0	2.0
Optimum Moisture Content (%)	8.5	9.0	9.0	10.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	77.5	78.5	81.0	81.5
Density Test Results:				
Field Wet Density (t/m ³)	2.16	2.13	2.06	2.07
Adj/Peak Conv Wet Density (t/m ³)	2.15	2.07	2.06	2.11
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	100.5	103.0	100.0	98.0

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing		
	Accreditation Number: 1986 Corporate Site Number: 1979	Approved Signatory: Dean Stimpson Form ID: W5ASRep Rev 2



WET DENSITY RATIO REPORT

Client: CCA Winslow	Report Number: 1979/R/64682-1
Client Address: 1587 Ipswich Road, Rocklea	Project Number: 1979/P/1925
Project: 87 Koplick Road	Lot Number: -
Location: Chambers Flat	Internal Test Request: 1979/T/35299
Component: Bulk Earthworks	Client Reference/s: WR5139
Area Description: Stages 3-4	Report Date / Page: 7/03/2022 Page 2 of 3

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/179736	1979/S/179737	1979/S/179738	1979/S/179739
ID / Client ID	-	-	-	-
Lot Number	-	-	-	-
Date / Time Tested	21/02/2022 10:30	21/02/2022 10:40	21/02/2022 10:45	21/02/2022 10:55
Material Source	Imported	Imported	Imported	Imported
Material Type	Bulk Fill	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	AS1289.1.2.1 Cl 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
Location	Lot 57 O/S from NW Cnr 3m E, 10m S	Lot 59 O/S from NW Cnr 2m E, 10 m S	Lot 65 O/S from NW Cnr 8m E, 2m s	Lot 63 O/S from NW Cnr 2m E, 10m S
Level	F/L	F/L	F/L	F/L
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/179736	1979/S/179737	1979/S/179738	1979/S/179739
Sample Description	Clayey SAND - Brown	Clayey SAND - Light Brown	Clayey SAND - Brown	Clayey SAND - Light Brown
Moisture Test Results:				
Field Moisture Content (%)	6.7	12.8	6.4	5.9
Adjusted / Moisture Variation (%)	2.0	2.0	2.0	2.0
Optimum Moisture Content (%)	8.5	15.0	8.0	7.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	78.0	86.0	79.0	77.5
Density Test Results:				
Field Wet Density (t/m ³)	1.98	1.99	2.01	2.02
Adj/Peak Conv Wet Density (t/m ³)	2.04	2.06	2.05	2.04
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	97.0	96.5	98.5	99.0

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
 Accreditation Number: 1986 Corporate Site Number: 1979	Approved Signatory: Dean Stimpson Form ID: W5ASRep Rev 2



WET DENSITY RATIO REPORT

Client: CCA Winslow Client Address: 1587 Ipswich Road, Rocklea Project: 87 Koplick Road Location: Chambers Flat Component: Bulk Earthworks Area Description: Stages 3-4	Report Number: 1979/R/64682-1 Project Number: 1979/P/1925 Lot Number: - Internal Test Request: 1979/T/35299 Client Reference/s: WR5139 Report Date / Page: 7/03/2022 Page 3 of 3
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/179740	1979/S/179741	
ID / Client ID	-	-	
Lot Number	-	-	
Date / Time Tested	21/02/2022 14:10	21/02/2022 14:20	
Material Source	Imported	Imported	
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	
Location	Lot 41 O/S from NW Cnr 4m E, 7m S	Lot 29 O/S from NW Cnr 2m E, 11m S	
Level	F/L	F/L	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	
Sample Oversize (%)	0	0	
Compaction Sample Number	1979/S/179740	1979/S/179741	
Sample Description	Clayey SAND - Light Brown	Clayey SAND - Light Brown	
Moisture Test Results:			
Field Moisture Content (%)	6.8	6.6	
Adjusted / Moisture Variation (%)	2.0	2.0	
Optimum Moisture Content (%)	8.5	8.5	
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	
Moisture Ratio (%)	78.0	77.5	
Density Test Results:			
Field Wet Density (t/m ³)	2.19	2.14	
Adj/Peak Conv Wet Density (t/m ³)	2.26	2.15	
Density Ratio Required (%)	95	95	
Hilf Density Ratio (%)	97.0	100.0	

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
	Approved Signatory: Dean Stimpson Form ID: W5ASRep Rev 2
Accreditation Number: 1986 Corporate Site Number: 1979	



WET DENSITY RATIO REPORT

Client: CCA Winslow Client Address: 1587 Ipswich Road, Rocklea Project: 87 Koplick Road Location: Chambers Flat Component: Embankment Fill Area Description: Embankment Fill	Report Number: 1979/R/65922-1 Project Number: 1979/P/1925 Lot Number: 21/04 Internal Test Request: 1979/T/35953 Client Reference/s: WR7042 Report Date / Page: 27/05/2022 Page 1 of 2
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/183388	1979/S/183389	1979/S/183390	1979/S/183391
ID / Client ID	EW-25	EW-26	EW-27	EW-28
Lot Number	21/04	21/04	21/04	21/04
Date / Time Tested	21/04/2022 13:15	21/04/2022 13:19	21/04/2022 13:23	21/04/2022 13:27
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 Cl 6.4b	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	275 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Location	Lot 27 N/E Corner 7m S, 13m W	Lot 25 N/E Corner 4m S, 7m W	Lot 23 N/E Corner 4m S, 8m W	Lot 21 N/E Corner 7m S, 11m W
Level	F/L	F/L	F/L	F/L
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/183388	1979/S/183389	1979/S/183390	1979/S/183391
Sample Description	Sandy Clay-Brown	Sandy Clay-Brown	Sandy Clay-Brown	Sandy Clay-Brown
Moisture Test Results:				
Field Moisture Content (%)	12.7	13.2	12.8	12.4
Adjusted / Moisture Variation (%)	2.0	2.0	2.0	1.0
Optimum Moisture Content (%)	14.5	15.5	14.5	13.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	86.5	85.5	87.0	92.0
Density Test Results:				
Field Wet Density (t/m ³)	2.00	2.00	2.01	1.98
Adj/Peak Conv Wet Density (t/m ³)	2.00	1.98	2.02	2.03
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	100.0	101.0	100.0	97.5

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
 Accreditation Number: 1986 Corporate Site Number: 1979	Approved Signatory: Dean Stimpson Form ID: W5ASRep Rev 2



WET DENSITY RATIO REPORT

Client: CCA Winslow	Report Number: 1979/R/65922-1
Client Address: 1587 Ipswich Road, Rocklea	Project Number: 1979/P/1925
Project: 87 Koplick Road	Lot Number: 21/04
Location: Chambers Flat	Internal Test Request: 1979/T/35953
Component: Embankment Fill	Client Reference/s: WR7042
Area Description: Embankment Fill	Report Date / Page: 27/05/2022 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/183392	1979/S/183393	
ID / Client ID	EW-29	EW-30	
Lot Number	21/04	21/04	
Date / Time Tested	21/04/2022 13:30	21/04/2022 13:33	
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	
Location	Lot 20	Lot 19	
	N/E Corner	N/E Corner	
	6m S, 9m W	5m S, 9m W	
Level	F/L	F/L	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	
Sample Oversize (%)	0	0	
Compaction Sample Number	1979/S/183392	1979/S/183393	
Sample Description	Sandy Clay-Brown	Sandy Clay-Brown	
Moisture Test Results:			
Field Moisture Content (%)	13.7	12.8	
Adjusted / Moisture Variation (%)	0.0	2.0	
Optimum Moisture Content (%)	13.5	14.5	
Moisture Variation from OMC	(at OMC)	(Drier than OMC)	
Moisture Ratio (%)	100.0	87.0	
Density Test Results:			
Field Wet Density (t/m ³)	2.00	1.97	
Adj/Peak Conv Wet Density (t/m ³)	2.03	2.00	
Density Ratio Required (%)	95	95	
Hilf Density Ratio (%)	98.5	98.5	

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing		
	Accreditation Number: 1986 Corporate Site Number: 1979	Approved Signatory: Dean Stimpson Form ID: W5ASRep Rev 2



WET DENSITY RATIO REPORT

Client: CCA Winslow	Report Number: 1979/R/65923-1
Client Address: 1587 Ipswich Road, Rocklea	Project Number: 1979/P/1925
Project: 87 Koplick Road	Lot Number: 04/05
Location: Chambers Flat	Internal Test Request: 1979/T/35953
Component: Embankment Fill	Client Reference/s: WR7042
Area Description: Embankment Fill	Report Date / Page: 27/05/2022 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/184713	1979/S/184714	1979/S/184715	1979/S/184716
ID / Client ID	EW-31	EW-32	EW-33	EW-34
Lot Number	04/05	04/05	04/05	04/05
Date / Time Tested	4/05/2022 08:11	4/05/2022 08:19	4/05/2022 08:32	4/05/2022 08:41
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 Cl 6.4b	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	275 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Location	Lot 53 N/W Corner 6m S, 3m E	Lot 55 N/W Corner 9m S, 4m E	Lot 57 N/W Corner 8m S, 13m E	Lot 58 N/W Corner 5m S, 10m E
Level	F/L	F/L	F/L	F/L
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/184713	1979/S/184714	1979/S/184715	1979/S/184716
Sample Description	Sandy Clay-Brown	Sandy Clay-Brown	Sandy Clay-Brown	Sandy Clay-Brown
Moisture Test Results:				
Field Moisture Content (%)	13.1	14.2	15.1	12.9
Adjusted / Moisture Variation (%)	1.5	0.0	0.0	1.0
Optimum Moisture Content (%)	14.5	14.5	15.0	14.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	91.5	99.5	99.5	92.0
Density Test Results:				
Field Wet Density (t/m ³)	1.95	1.98	2.01	2.02
Adj/Peak Conv Wet Density (t/m ³)	2.02	2.05	2.03	2.03
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	96.5	97.0	99.0	99.5

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
	Approved Signatory: Dean Stimpson Form ID: W5ASRep Rev 2
Accreditation Number: 1986 Corporate Site Number: 1979	



WET DENSITY RATIO REPORT

Client: CCA Winslow Client Address: 1587 Ipswich Road, Rocklea Project: 87 Koplick Road Location: Chambers Flat Component: Embankment Fill Area Description: Embankment Fill	Report Number: 1979/R/65924-1 Project Number: 1979/P/1925 Lot Number: 20/05 Internal Test Request: 1979/T/35953 Client Reference/s: WR7042 Report Date / Page: 27/05/2022 Page 1 of 2
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/184717	1979/S/184718	1979/S/184719	1979/S/184720
ID / Client ID	EW-35	EW-36	EW-37	EW-38
Lot Number	20/05	20/05	20/05	20/05
Date / Time Tested	20/05/2022 12:55	20/05/2022 13:07	20/05/2022 13:18	20/05/2022 13:26
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 Cl 6.4b	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	275 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Location	Lot 59 N/E Corner 9m S, 3m W	Lot 61 N/E Corner 8m S, 4m W	Lot 62 N/E Corner 3m S, 4m W	Lot 63 N/E Corner 7m S, 4m W
Level	F/L	F/L	F/L	F/L
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/184717	1979/S/184718	1979/S/184719	1979/S/184720
Sample Description	Sandy Clay-Brown	Sandy Clay-Brown	Sandy Clay-Brown	Sandy Clay-Brown
Moisture Test Results:				
Field Moisture Content (%)	13.6	14.2	13.8	12.6
Adjusted / Moisture Variation (%)	1.5	0.0	1.0	2.0
Optimum Moisture Content (%)	15.0	14.5	15.0	14.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	92.0	99.5	93.0	87.0
Density Test Results:				
Field Wet Density (t/m ³)	2.03	2.02	1.97	1.95
Adj/Peak Conv Wet Density (t/m ³)	2.04	2.08	2.01	2.00
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	100.0	97.5	98.0	97.5

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
 Accreditation Number: 1986 Corporate Site Number: 1979	Approved Signatory: Dean Stimpson Form ID: W5ASRep Rev 2



WET DENSITY RATIO REPORT

Client: CCA Winslow	Report Number: 1979/R/65924-1
Client Address: 1587 Ipswich Road, Rocklea	Project Number: 1979/P/1925
Project: 87 Koplick Road	Lot Number: 20/05
Location: Chambers Flat	Internal Test Request: 1979/T/35953
Component: Embankment Fill	Client Reference/s: WR7042
Area Description: Embankment Fill	Report Date / Page: 27/05/2022 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/184721	1979/S/184722		
ID / Client ID	EW-39	EW-40		
Lot Number	20/05	20/05		
Date / Time Tested	20/05/2022 13:38	20/05/2022 13:49		
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		
Location	Lot 64	Lot 65		
	N/W Corner	N/E Corner		
	6m S, 5m E	3m S, 7m W		
Level	F/L	F/L		
Test Fraction (mm)	< 19.0 mm	< 19.0 mm		
Sample Oversize (%)	0	0		
Compaction Sample Number	1979/S/184721	1979/S/184722		
Sample Description	Sandy Clay-Brown	Clayey SAND - Light Brown		
Moisture Test Results:				
Field Moisture Content (%)	13.8	14.5		
Adjusted / Moisture Variation (%)	1.0	-0.5		
Optimum Moisture Content (%)	15.0	14.0		
Moisture Variation from OMC	(Drier than OMC)	(Wetter than OMC)		
Moisture Ratio (%)	92.5	102.0		
Density Test Results:				
Field Wet Density (t/m ³)	1.99	2.02		
Adj/Peak Conv Wet Density (t/m ³)	2.04	2.08		
Density Ratio Required (%)	95	95		
Hilf Density Ratio (%)	97.5	97.0		

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
	Approved Signatory: Dean Stimpson Form ID: W5ASRep Rev 2
Accreditation Number: 1986 Corporate Site Number: 1979	

APPENDIX

B

LOT CERTIFICATES



Ref: 1979/L/1

Project Ref: 1979/P/1925

Construction Sciences Pty Ltd
ABN 74 128 806 735

6/06/2022

1 Fox Road
Acacia Ridge QLD 4110
Australia

CCA Winslow
1587 Ipswich Road
ROCKLEA QLD 4106

PO Box 253
Acacia Ridge QLD 4110
Australia

Phone: 61 7 3320 8500
www.constructionsciences.net

Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 18, 87-93 KOPLICK ROAD, PARK RIDGE**

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



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/1

Project Ref: 1979/P/1925

Construction Sciences Pty Ltd
ABN 74 128 806 735

6/06/2022

1 Fox Road
Acacia Ridge QLD 4110
Australia

CCA Winslow
1587 Ipswich Road
ROCKLEA QLD 4106

PO Box 253
Acacia Ridge QLD 4110
Australia

Phone: 61 7 3320 8500
www.constructionsciences.net

Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 19, 87-93 KOPLICK ROAD, PARK RIDGE**

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



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/1

Project Ref: 1979/P/1925

Construction Sciences Pty Ltd
ABN 74 128 806 735

6/06/2022

1 Fox Road
Acacia Ridge QLD 4110
Australia

CCA Winslow
1587 Ipswich Road
ROCKLEA QLD 4106

PO Box 253
Acacia Ridge QLD 4110
Australia

Phone: 61 7 3320 8500
www.constructionsciences.net

Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 20, 87-93 KOPLICK ROAD, PARK RIDGE**

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



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/1

Project Ref: 1979/P/1925

Construction Sciences Pty Ltd
ABN 74 128 806 735

6/06/2022

1 Fox Road
Acacia Ridge QLD 4110
Australia

CCA Winslow
1587 Ipswich Road
ROCKLEA QLD 4106

PO Box 253
Acacia Ridge QLD 4110
Australia

Phone: 61 7 3320 8500
www.constructionsciences.net

Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 21, 87-93 KOPLICK ROAD, PARK RIDGE**

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.

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/1

Project Ref: 1979/P/1925

Construction Sciences Pty Ltd
ABN 74 128 806 735

6/06/2022

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CCA Winslow
1587 Ipswich Road
ROCKLEA QLD 4106

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Phone: 61 7 3320 8500
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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 22, 87-93 KOPLICK ROAD, PARK RIDGE**

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**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
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LOT 25, 87-93 KOPLICK ROAD, PARK RIDGE**

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**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 26, 87-93 KOPLICK ROAD, PARK RIDGE**

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**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 27, 87-93 KOPLICK ROAD, PARK RIDGE**

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**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 28, 87-93 KOPLICK ROAD, PARK RIDGE**

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LOT 29, 87-93 KOPLICK ROAD, PARK RIDGE**

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**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 30, 87-93 KOPLICK ROAD, PARK RIDGE**

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**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 31, 87-93 KOPLICK ROAD, PARK RIDGE**

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LOT 34, 87-93 KOPLICK ROAD, PARK RIDGE**

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 38, 87-93 KOPLICK ROAD, PARK RIDGE**

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LOT 39, 87-93 KOPLICK ROAD, PARK RIDGE**

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 40, 87-93 KOPLICK ROAD, PARK RIDGE**

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**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 41, 87-93 KOPLICK ROAD, PARK RIDGE**

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**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 42, 87-93 KOPLICK ROAD, PARK RIDGE**

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LOT 44, 87-93 KOPLICK ROAD, PARK RIDGE**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/1

Project Ref: 1979/P/1925

Construction Sciences Pty Ltd
ABN 74 128 806 735

6/06/2022

1 Fox Road
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CCA Winslow
1587 Ipswich Road
ROCKLEA QLD 4106

PO Box 253
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Australia

Phone: 61 7 3320 8500
www.constructionsciences.net

Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 45, 87-93 KOPLICK ROAD, PARK RIDGE**

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LOT 61, 87-93 KOPLICK ROAD, PARK RIDGE**

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	CLIENT: CCA Winslow	JOB No.: P 1925
	PROJECT: 87-93 Koplick Road, Park Ridge	SKETCH No.: SK 02
	TEST ITEM: Site Photos	DATE ISSUED: 06/06/2022



	CLIENT: CCA Winslow	JOB No.: P 1925
	PROJECT: 87-93 Koplick Road, Park Ridge	SKETCH No.: SK 03
	TEST ITEM: Site Photos	DATE ISSUED: 06/06/2022

Contact

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Telephone: (07) 3320 8500
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