



28th June 2021

Ref No: 836_Level 1 Report_236-240 Montereia Road Ripley_Stage 2 & 3

REPORT ON LEVEL 1

EARTHWORKS INSPECTION AND TESTING



PROJECT: 236-240 Montereia Road Ripley - Stage 2 & 3

CONTRACTOR: SEE Civil Pty Ltd

TABLE OF CONTENTS

1 INTRODUCTION

1.0 General

1.1 Site Description

2 WORKS AND SPECIFICATIONS

3 FILL FOUNDATION

4 COMPLIANCE TESTING

5 CONCLUSION

6 LIMITATIONS

Appendix A – Cut Fill Drawing

Appendix B – Test Reports

Appendix C – Individual Lot Certificates

1 INTRODUCTION

1.0 GENERAL

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with Clause 8.2 of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

The fill placed on the development between 18/12/2020 and 4/06/2021 as detailed in this report is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

1.1 SITE DESCRIPTION

The site is located 236-240 Montereia Road in Ripley, Queensland and is surrounded by rural properties and an existing residential development to the northeast of the site. Site boundaries shown below.



Stage 2



Stage 3

2 WORKS AND SPECIFICATIONS

The earthworks generally comprised of Level 1 filling placed across the site. Filling was conducted by using site won and borrow pit won materials. The fill materials were placed in layers not exceeding 200mm and moisture conditioned. Compaction equipment was then utilised to compact the fill until the required density specifications were achieved.

Filling was carried out in accordance with AS3798-2007 '*Guidelines on earthworks for commercial and residential developments*' and with the project specification prepared for the project.

The specification requirements were that all fill was to be placed and compacted in layers to a density ratio of not less than 95% (standard compaction).

3 FILL FOUNDATION

The stripped surfaces of proposed fill areas were inspected, and proof rolled prior to placement of fill. In general, the proof rolling was carried out with the equipment used to compact the fill and water truck. Compliance of the fill foundation and approval to commence filling was on the basis of:

- Visual Inspection of the stripped surfaces
- Adequate removal of topsoil and organics
- Soundness (minimum deflection) under proof rolling

4 COMPLIANCE TESTING

Test locations were randomly selected by the Geotechnical Testing Authority (GTA) Australian Soil and Concrete Testing. Compaction control tests were carried out at regular intervals throughout the placement of fill in accordance with the minimum test frequency recommendations included in the specifications. The table below summarises the test results. The test locations were not professionally surveyed and should be considered approximate.

All field density tests carried out on the structural fill meet the minimum specification requirements of 95% Standard Compaction on allotments (AS 1289 5.8.1, 5.7.1 & 2.1.1).

SUMMARY OF FIELD DENSITY TEST RESULTS

TEST NO	TEST DATE	TEST LOCATION		LEVEL OF TEST	DENSITY RATIO %
44941	21/12/2020	N:39480.1	E:7995.9	RL:53.25	99.5
44942	21/12/2020	N:39498.6	E:8003.7	RL:53.47	98.0
44943	21/12/2020	N:39517.0	E:7991.4	RL:55.18	100.0
44944	21/12/2020	N:39505.9	E:8012.2	RL:53.37	100.5
44945	21/12/2020	N:39508.9	E:8035.6	RL:52.32	100.5
44946	22/12/2020	N:39486.3	E:8002.1	RL:53.69	98.5
44947	22/12/2020	N:39491.1	E:8014.6	RL:53.17	100.5
44948	22/12/2020	N:39506.5	E:8016.8	RL:53.46	103.5
44949	22/12/2020	N:39477.0	E:7987.2	RL:53.94	98.5
44950	22/12/2020	N:39514.6	E:8013.5	RL:53.89	101.5
44951	22/12/2020	N:39480.2	E:8011.2	RL:53.24	103.5
45028	12/01/2021	E:7961.91	N:39437.65	RL:52.89	101.0
45029	12/01/2021	E:7977.14	N:39438.78	RL:52.19	101.5
45030	12/01/2021	E:7949.28	N:39427.77	RL:52.92	100.5
45057	13/01/2020	E:7966.2	N:39415.4	RL:51.7	101.5
45058	13/01/2020	E:7954.6	N:39410.3	RL:52.16	100.0
45059	13/01/2020	E:7941.7	N:39409.8	RL:52.75	99.5

45060	13/01/2020	E:7928.9	N:39408.8	RL:53.02	101.5
45061	13/01/2020	E:7915.6	N:39410.9	RL:53.5	100.5
45062	14/01/2020	E:8036.3	N:39524.6	RL:53.7	103.5
45063	14/01/2020	E:8023.3	N:39507.8	RL:53.9	101.0
45064	14/01/2020	E:8043.4	N:39542.3	RL:54.13	101.0
45065	14/01/2020	E:8046.3	N:39555.5	RL:54.52	100.0
45066	14/01/2020	E:8025.3	N:39544.3	RL:54.74	101.5
45095	15/01/2021	E:7940.9	N:39395.5	RL:52.56	99.0
45096	15/01/2021	E:7924.2	N:39411.5	RL:53.42	99.0
45097	15/01/2021	E:7967.7	N:39393.0	RL:51.82	98.5
45098	15/01/2021	E:7982.9	N:39475.7	RL:54.57	100.5
45099	15/01/2021	E:7971.6	N:39405.2	RL:53.90	98.5
45124	18/01/2021	E:7965.4	N:39419.1	RL:52.78	101.5
45125	18/01/2021	E:7943.9	N:39417.3	RL:53.50	100.5
45126	18/01/2021	E:7978.7	N:39412.6	RL:52.18	98.5
45127	18/01/2021	E:7922.9	N:39403.9	RL:53.69	98.5
45128	18/01/2021	E:7915.6	N:39409.2	RL:53.54	102.5
45260	20/01/2020	E: 7982.8	N: 39471.1	RL:54.9	99.0
45261	20/01/2020	E: 7971.2	N: 39459.7	RL:54.8	101.0
45262	20/01/2020	E: 7998.7	N: 39490.6	RL:54.7	98.5
45263	20/01/2020	E: 7944.9	N: 39446.9	RL:54.6	101.5
45264	20/01/2020	E: 7959.5	N: 39458.5	RL:55.0	99.5
45277	21/01/2020	E:7950.5	N:39428.9	RL:54.4	98.0
45278	21/01/2020	E:7968.5	N:39423.7	RL:53.6	101.0
45279	21/01/2020	E:8051.8	N:39560.5	RL:54.9	98.5
45280	21/01/2020	E:8033.9	N:39505.5	RL:53.9	101.0
45281	21/01/2020	E:7934.1	N:39433.1	RL:54.8	99.5
45282	21/01/2020	E:8050.2	N:39544.5	RL:53.9	99.5
45283	21/01/2020	E:8043.2	N:39523.4	RL:54.4	101.0
45344	22/01/2021	E:7951.7	N:39450.3	RL:54.93	98.5
45345	22/01/2021	E:7958.9	N:39434.2	RL:54.58	101.0
45346	22/01/2021	E:7955.3	N:39441.2	RL:54.78	99.5
45347	22/01/2021	E:7973.3	N:39431.7	RL:53.95	98.5
45348	22/01/2021	E:7974.3	N:39443.8	RL:54.1	100.5
45444	27/01/2021	E:7942.9	N:39441.6	RL:55.5	99.5
45445	27/01/2021	E:7966.1	N:39441.5	RL:55.5	100.5
45446	27/01/2021	E:7957.2	N:39439.9	RL:55.5	100.0
45447	27/01/2021	E:7932.2	N:39445.2	RL:55.5	99.5
45576	29/01/2021	E:8034.2	N:39534.5	RL:54.9	98.5
45577	29/01/2021	E:7950.1	N:39417.3	RL:55.2	98.5
45578	29/01/2021	E:8040.1	N:39543.1	RL:54.9	98.5
45579	29/01/2021	E:8024.0	N:39528.2	RL:54.9	100.5
45580	29/01/2021	E:8020.2	N:39516.3	RL:54.9	98.5

45581	29/01/2021	E:7960.8	N:39414.2	RL:54.8	102.0
45582	29/01/2021	E:7971.2	N:39411.4	RL:54.3	99.5
45583	29/01/2021	E:7980.1	N:39409.9	RL:53.9	101.5
46019	8/02/2021	E:7986.6	N:39442.2	RL:52.8	101.0
46020	8/02/2021	E:8013.8	N:39449.9	RL:50.8	99.0
46021	8/02/2021	E:8015.0	N:39464.8	RL:51.0	100.0
46022	8/02/2021	E:8005.8	N:39442.5	RL:49.5	103.0
46023	8/02/2021	E:8001.4	N:39454.4	RL:49.3	101.5
46024	8/02/2021	E:8031.2	N:39457.6	RL:48.7	98.5
46025	8/02/2021	E:8036.3	N:39468.7	RL:51.0	102.0
46026	8/02/2021	E:8030.3	N:39480.4	RL:52.1	98.5
46156	12/02/2021	E:8031.2	N:39476.7	RL:53.1	101.0
46157	12/02/2021	E:8001.9	N:39424.5	RL:52.4	98.5
46158	12/02/2021	E:8010.8	N:39430.8	RL:53.4	102.0
46159	12/02/2021	E:8025.2	N:39454.9	RL:52.9	100.5
46160	12/02/2021	E:8024.8	N:39485.8	RL:53.2	100.5
46161	12/02/2021	E:8015.5	N:39472.6	RL:53.6	101.5
46328	18/02/2021	E:7898.3	N:39433.1	RL:55.6	100.0
46329	18/02/2021	E:7899.2	N:39415.6	RL:54.9	99.0
46330	18/02/2021	E:7902.6	N:39425.6	RL:55.1	99.5
46331	18/02/2021	E:7894.1	N:39430.2	RL:54.7	99.0
46381	22/02/2021	E:7903.7	N:39428.5	RL:56.3	100.0
46382	22/02/2021	E:7904.6	N:39419.2	RL:55.9	98.0
46383	22/02/2021	E:7900.3	N:39410.3	RL:55.6	100.0
46384	22/02/2021	E:7895.9	N:39400.3	RL:55.4	98.0
46478	23/02/2021	E:7914.3	N:39422.1	RL:56.4	102.0
46479	23/02/2021	E:7901.7	N:39409.4	RL:56.2	99.0
46480	23/02/2021	E:7913.2	N:39430.1	RL:56.0	100.0
46481	23/02/2021	E:7904.4	N:39433.2	RL:56.6	101.5
46482	23/02/2021	E:7897.7	N:39420.7	RL:56.3	100.5
46540	25/02/2021	E:39775.8	N:8040.1	RL:58.4	100.5
46541	25/02/2021	E:39786.3	N:8046.1	RL:57.7	100.5
46542	25/02/2021	E:39798.5	N:8043.4	RL:57.1	100.5
46543	25/02/2021	E:39801.3	N:8005.7	RL:58.2	100.0
50240	4/06/2021	E:8050.4	N:39874.5	RL:54.1	98.0
50241	4/06/2021	2m off Northern Boundary	5m off Eastern Boundary	F/L	99.0
50242	4/06/2021	4m off Northern Boundary	6m off Eastern Boundary	0.5m BFL	100.0
50243	4/06/2021	3m off Northern Boundary	5m off Eastern Boundary	0.5m BFL	99.0

No. of Tests: 98

Mean: 100.1 %

5 CONCLUSION

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction, as far as we have been able to determine, the structural fill placed between the 18/12/2020 and 4/06/2021 is considered to have been carried out in general accordance with AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

6 LIMITATIONS

Unless otherwise stated in this report, this report does not include: Backfill behind retaining structures, Backfill to service trenches, Road Pavements, Any Topsoil placed on the site, Slope Stability or Site Drainage.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

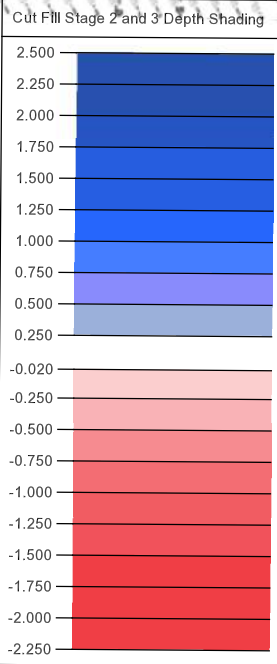
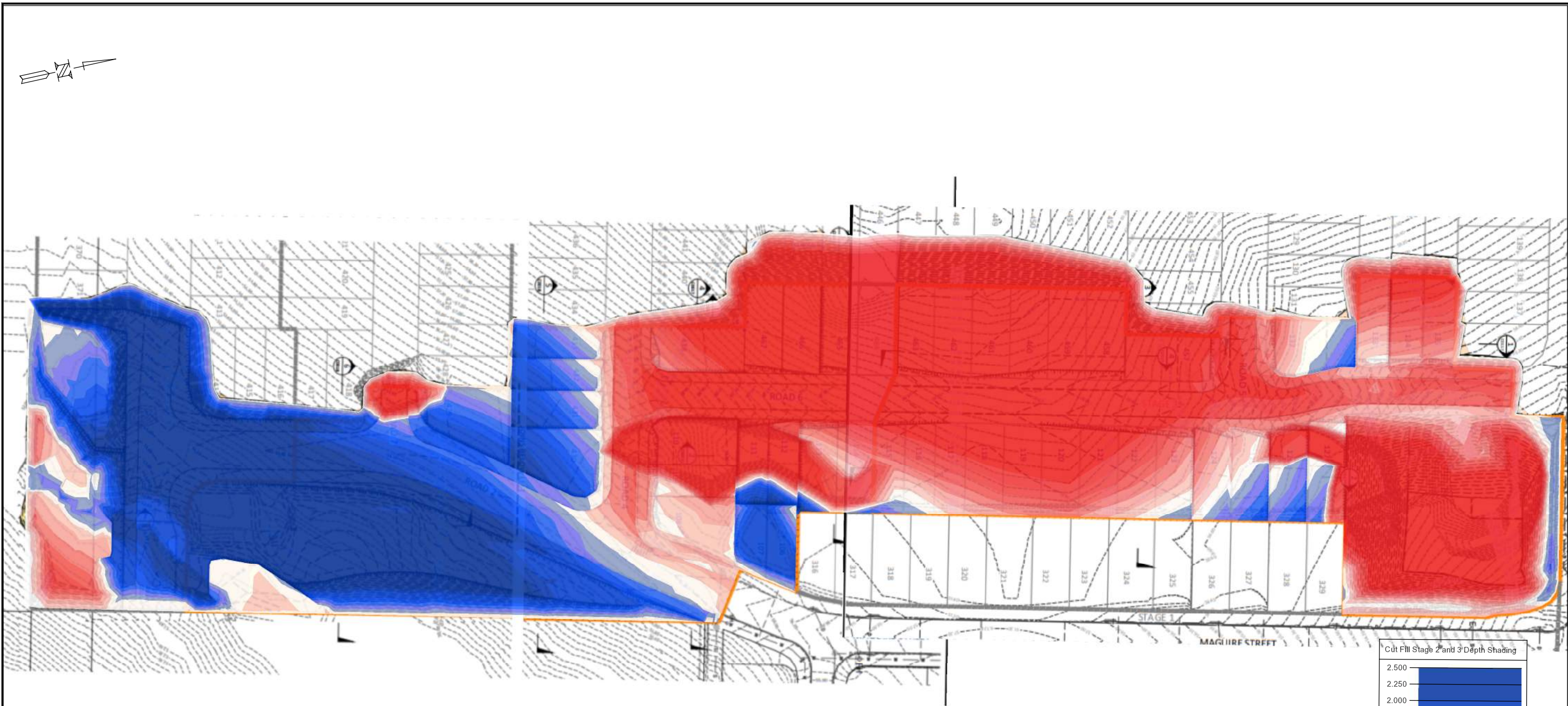


Jason McKenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

Appendix A

Cut Fill Drawing



NOTES & DISCLAIMERS		CONSULTANT	CLIENT	CONTRACTOR	JOB # J000-0
THE INFORMATION SHOWN ON THIS PLAN HAS BEEN COLLATED FROM DATA PROVIDED BY THE CONSULTANT OR THE CONSULTANTS REPRESENTATIVE. NO DESIGN WORK HAS BEEN CARRIED OUT BY SEE CIVIL. THE PLAN IS MERELY THE LOCATION OF IMPROVEMENTS DESIGNED BY OTHERS.				<div>CONSTRUCTING THE FUTURE</div> <div>ON THE STRENGTH OF OUR PAST</div> <div>see</div> <div>Civil Pty Ltd</div> <div>Issue Date: < 00/00/0000 ></div> <div>Revision Date: N/A</div>	MONTEREA LAND HOLDINGS 236-240 MONTEREA ROAD RIPLEY QLD
THIS PLAN WAS CREATED AT TENDER TIME AND IS NOT FOR CONSTRUCTION. THE BOUNDARIES SHOWN HEREON WERE NOT MARKED AT THE TIME OF SURVEY AND HAVE BEEN PROVIDED BY THE CLIENT.					CUT FILL MAP STAGES 2 AND 3
					SHEET 1 OF 1 DRG No. TEN.001

Appendix B

Test Reports



ASCT Brisbane South
 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf)			Page:	1 of 1
Client:	See Civil Pty Ltd	Report No:	4	
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	13/01/2021	
Project:	236-240 Montereia Rd, Precinct 2 - Stages 2 & 3, Ripley	Project No:	836	
Component:	Level 1 - Fill	Test Request:	-	
Lot Number:	-	ITP/PCP:		

Sample Information & Location					
Sample Number:	44941	44942	44943	44944	44945
Field Test Number:	1	2	3	4	5
Date - Field Tested:	21/12/2020	21/12/2020	21/12/2020	21/12/2020	21/12/2020
Time - Field Tested:	1010	1020	1030	1040	1050
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) N:39480.1	N:39498.6	N:39517.0	N:39505.9	N:39508.9
Position/Offset/Northing:	(m) E:7995.9	E:8003.7	E:7991.4	E:8012.2	E:8035.6
Level/Layer/R.L.	RL:53.25	RL:53.47	RL:55.18	RL:53.37	RL:52.32
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150


Field & Laboratory Results					
Field Wet Density:	(t/m ³) 2.13	2.00	2.13	2.19	2.16
Field Dry Density:	(t/m ³) 1.94	1.83	2.00	2.04	1.98
Retained Oversize (Wet basis):	(%) 1% on 19.0mm	1% on 19.0mm	1% on 19.0mm	1% on 19.0mm	1% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%) 9.5	9.0	6.5	7.5	9.0
Adjusted Lab OMC:	(%) 11.0	10.9	8.6	9.1	10.5
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³) 2.14	2.03	2.13	2.18	2.15
Adjusted Lab Max CWD:	(t/m ³) 2.14	2.03	2.13	2.18	2.15
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture					
Moisture Variation	(%) 1.5% Drier than OMC	2.0% Drier than OMC	2% Drier than OMC	2% Drier than OMC	1.5% Drier than OMC
Moisture Ratio	(%) 87.0	82.0	77.5	80.0	86.5
Density Ratio	(%) 99.5	98.0	100.0	100.5	100.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	99.2	5	99.74	1.02	0.572
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-


Test Methods Used.
 AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.
 Laboratory testing 12/01/2021



Accreditation number: 19902

Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Approved By: 
 A. Lenkeit
 Approved Signatory

WB101 - Rev 9, 11/06/20



ASCT Brisbane South
 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	5
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	13/01/2021
Project:	236-240 Montereia Rd, Precinct 2 - Stages 2 & 3, Ripley	Project No:	836
Component:	Level 1 - Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:	44946	44947	44948	44949	44950
Field Test Number:	1	2	3	4	5
Date - Field Tested:	22/12/2020	22/12/2020	22/12/2020	22/12/2020	22/12/2020
Time - Field Tested:	1100	1105	1110	1115	1120
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) N:39486.3	N:39491.1	N:39506.5	N:39477.0	N:39514.6
Position/Offset/Northing:	(m) E:8002.1	E:8014.6	E:8016.8	E:7987.2	E:8013.5
Level/Layer/R.L.	RL:53.69	RL:53.17	RL:53.46	RL:53.94	RL:53.89
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.06	2.19	2.26	2.06	2.19
Field Dry Density:	(t/m ³)	1.90	2.05	2.07	1.89	2.02
Retained Oversize (Wet basis):	(%)	5% on 19.0mm	7% on 19.0mm	7% on 19.0mm	3% on 19.0mm	6% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	8.5	6.5	9.0	9.5	8.5
Adjusted Lab OMC:	(%)	10.6	8.6	9.3	11.5	10.1
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.08	2.17	2.18	2.09	2.15
Adjusted Lab Max CWD:	(t/m ³)	2.10	2.18	2.19	2.10	2.16
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Drier than OMC	2.0% Drier than OMC	At OMC	2% Drier than OMC	1.5% Drier than OMC
Moisture Ratio	(%)	82.5	77.5	99.0	82.0	85.0
Density Ratio	(%)	98.5	100.5	103.5	98.5	101.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	99.7	6	100.85	2.28	0.523
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 12/01/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By: A.Lenkeit
 Approved Signatory



ASCT Brisbane South
 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 2

Client: See Civil Pty Ltd
 Client Address: 108 Siganto Drive, Helensvale QLD 4210
 Project: 236-240 Montereia Rd, Precinct 2 - Stages 2 & 3, Ripley
 Component: Level 1 - Fill
 Lot Number:

Report No: 5
 Report Date: 13/01/2021
 Project No: 836
 Test Request:
 ITP/PCP:

Sample Information & Location

Sample Number:	44951	-	-	-	-
Field Test Number:	6	-	-	-	-
Date - Field Tested:	22/12/2020	-	-	-	-
Time - Field Tested:	1130	-	-	-	-
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) N:39480.2	-	-	-	-
Position/Offset/Northing:	(m) E:8011.2	-	-	-	-
Level/Layer/R.L.	RL:53.24	-	-	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	-	-	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.25	-	-	-	-
Field Dry Density:	(t/m ³)	2.06	-	-	-	-
Retained Oversize (Wet basis):	(%)	11% on 19.0mm	-	-	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	-	-	-	-
Field Moisture Content:	(%)	9.0	-	-	-	-
Adjusted Lab OMC:	(%)	10.5	-	-	-	-
Fraction Tested:		Passing 19.0mm	-	-	-	-
Lab Max Converted Wet Density:	(t/m ³)	2.16	-	-	-	-
Adjusted Lab Max CWD:	(t/m ³)	2.17	-	-	-	-
Compactive Effort:		Standard	-	-	-	-

Relative Compaction & Moisture

Moisture Variation	(%)	1.5% Drier than OMC	-	-	-	-
Moisture Ratio	(%)	85.5	-	-	-	-
Density Ratio	(%)	103.5	-	-	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	99.7	6	100.85	2.28	0.523
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 12/01/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902



ASCT Brisbane South
 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 1

Client:	See Civil Pty Ltd	Report No:	6
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/01/2021
Project:	236-240 Montereia Rd, Precinct 2 - Stages 2 & 3, Ripley	Project No:	836
Component:	Level 1 - General Filling	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:	45028	45029	45030	-	-
Field Test Number:	1	2	3	-	-
Date - Field Tested:	13/01/2021	13/01/2021	13/01/2021	-	-
Time - Field Tested:	1000	1010	1020	-	-
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-		
Location/Chainage/Easting:	(m) E:7961.91	E:7977.14	E:7949.28	-	-
Position/Offset/Northing:	(m) N:39437.65	N:39438.78	N:39427.77	-	-
Level/Layer/R.L.	RL:52.89	RL:52.19	RL:52.92	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³) 2.12	2.10	2.17	-	-
Field Dry Density:	(t/m ³) 1.88	1.89	1.94	-	-
Retained Oversize (Wet basis):	(%) 2% on 19.0mm	1% on 19.0mm	1% on 19.0mm	-	-
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
Field Moisture Content:	(%) 12.5	11.0	11.5	-	-
Adjusted Lab OMC:	(%) 12.8	12.9	11.7	-	-
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density:	(t/m ³) 2.09	2.07	2.15	-	-
Adjusted Lab Max CWD:	(t/m ³) 2.10	2.07	2.15	-	-
Compactive Effort:	Standard	Standard	Standard	-	-

Relative Compaction & Moisture

Moisture Variation	(%) At OMC	2.0% Dryer than OMC	0.5% Dryer than OMC	-	-
Moisture Ratio	(%) 99.0	83.5	97.0	-	-
Density Ratio	(%) 101.0	101.5	100.5	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	100.7	3	100.93	0.35	0.739
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 13/01/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit
 Approved Signatory



ASCT Brisbane South
 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 1

Client:	See Civil Pty Ltd	Report No:	7
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	18/01/2021
Project:	236-240 Montereia Rd, Precinct 2 - Stages 2 & 3, Ripley	Project No:	836
Component:	Level 1 - Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:	45057	45058	45059	45060	45061
Field Test Number:	1	2	3	4	5
Date - Field Tested:	13/01/2021	13/01/2021	13/01/2021	13/01/2021	13/01/2021
Time - Field Tested:	1400	1410	1420	1430	1440
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:7966.2	E:7954.6	E:7941.7	E:7928.9	E:7915.6
Position/Offset/Northing:	(m) N:39415.4	N:39410.3	N:39409.8	N:39408.8	N:39410.9
Level/Layer/R.L.	RL:51.7	RL:52.16	RL:52.75	RL:53.02	RL:53.5
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.09	2.07	2.06	2.07	2.08
Field Dry Density:	(t/m ³)	1.95	1.89	1.91	1.91	1.95
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	7.5	9.5	7.5	8.0	7.0
Adjusted Lab OMC:	(%)	9.4	11.2	9.0	9.7	8.4
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.06	2.07	2.07	2.05	2.07
Adjusted Lab Max CWD:	(t/m ³)	2.06	2.07	2.07	2.05	2.07
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Drier than OMC	2.0% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC
Moisture Ratio	(%)	78.0	84.5	83.5	84.5	83.5
Density Ratio	(%)	101.5	100.0	99.5	101.5	100.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	100.0	5	100.48	0.88	0.572
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 14/01/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit
 Approved Signatory

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
Telephone: 0437 776 582
E-Mail: brisbane.south@asct.com.au
Mobile: 0437 776 582
A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 1

Client: See Civil Pty Ltd
Client Address: 108 Siganto Drive, Helensvale QLD 4210
Project: 236-240 Montereia Rd, Precinct 2 - Stages 2 & 3, Ripley
Component: Level 1 - Fill
Lot Number: -

Report No: 8
Report Date: 21/01/2021
Project No: 836
Test Request: -
ITP/PCP:

Sample Information & Location

Sample Number:	45062	45063	45064	45065	45066
Field Test Number:	1	2	3	4	5
Date - Field Tested:	14/01/2021	14/01/2021	14/01/2021	14/01/2021	14/01/2021
Time - Field Tested:	1300	1310	1320	1330	1340
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:8036.3	E:8023.3	E:8043.4	E:8046.3	E:8025.3
Position/Offset/Northing:	(m) N:39524.6	N:39507.8	N:39542.3	N:39555.5	N:39544.3
Level/Layer/R.L.	RL:53.7	RL:53.9	RL:54.13	RL:54.52	RL:54.74
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³) 2.18	2.14	2.08	2.11	2.15
Field Dry Density:	(t/m ³) 2.01	1.97	1.93	1.92	1.98
Retained Oversize (Wet basis):	(%) 5% on 19.0mm	4% on 19.0mm	0% on 19.0mm	5% on 19.0mm	4% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%) 8.0	8.0	8.0	10.0	8.5
Adjusted Lab OMC:	(%) 10.1	9.7	10.1	11.8	10.1
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³) 2.10	2.12	2.06	2.10	2.12
Adjusted Lab Max CWD:	(t/m ³) 2.10	2.12	2.06	2.10	2.12
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%) 2.0% Drier than OMC	1.5% Drier than OMC	2% Drier than OMC	2% Drier than OMC	1.5% Drier than OMC
Moisture Ratio	(%) 80.5	84.5	80.5	83.5	84.0
Density Ratio	(%) 103.5	101.0	101.0	100.0	101.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	100.6	5	101.40	1.32	0.572
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 19/01/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit
Approved Signatory

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125

Laboratory: 4/31 Tradelink Road Hillcrest Q 4118

Telephone: 0437 776 582

E-Mail: brisbane.south@asct.com.au

Mobile: 0437 776 582

A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 1

Client: See Civil Pty Ltd
Client Address: 108 Siganto Drive, Helensvale QLD 4210
Project: 236-240 Montereia Rd, Precinct 2 - Stages 2 & 3, Ripley
Component: Level 1 - Bulk Earthworks
Lot Number: -

Report No: 9
Report Date: 21/01/2021
Project No: 836
Test Request: -
ITP/PCP:

Sample Information & Location

Sample Number:	45095	45096	45097	45098	45099
Field Test Number:	1	2	3	4	5
Date - Field Tested:	15/01/2021	15/01/2021	15/01/2021	15/01/2021	15/01/2021
Time - Field Tested:	1330	1340	1350	1400	1410
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting: (m)	E:7940.9	E:7924.2	E:7967.7	E:7982.9	E:7971.6
Position/Offset/Northing: (m)	N:39395.5	N:39411.5	N:39393.0	N:39475.7	N:39405.2
Level/Layer/R.L.	RL:52.56	RL:53.42	RL:51.82	RL:54.57	RL:53.90
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.06	2.10	2.04	2.13	2.07
Field Dry Density: (t/m ³)	1.86	1.88	1.86	1.95	1.87
Retained Oversize (Wet basis): (%)	2% on 19.0mm	2% on 19.0mm	2% on 19.0mm	3% on 19.0mm	2% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	10.5	11.5	10.0	9.5	11.0
Adjusted Lab OMC: (%)	10.8	11.5	10.3	11.4	12.2
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.08	2.12	2.07	2.12	2.10
Adjusted Lab Max CWD: (t/m ³)	2.08	2.12	2.08	2.12	2.10
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	0.5% Drier than OMC	At OMC	0.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC
Moisture Ratio (%)	97.0	100.0	95.5	85.5	89.0
Density Ratio (%)	99.0	99.0	98.5	100.5	98.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	98.5	5	99.04	0.91	0.572
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 20/01/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit
Approved Signatory

WB101 - Rev 9, 11/06/20



ASCT Brisbane South
 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 1

Client:	See Civil Pty Ltd	Report No:	10
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	25/01/2021
Project:	236-240 Montereia Rd, Precinct 2 - Stages 2 & 3, Ripley	Project No:	836
Component:	Level 1 - Bulk Earthworks	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:		45124	45125	45126	45127	45128
Field Test Number:		1	2	3	4	5
Date - Field Tested:		18/01/2021	18/01/2021	18/01/2021	18/01/2021	18/01/2021
Time - Field Tested:		1230	1240	1250	1300	1310
Material Source / Type:		Onsite - General Fill				
Remarks / Notes:						
Control Line:		-	-	-	-	-
Location/Chainage/Easting:	(m)	E:7965.4	E:7943.9	E:7978.7	E:7922.9	E:7915.6
Position/Offset/Northing:	(m)	N:39419.1	N:39417.3	N:39412.6	N:39403.9	N:39409.2
Level/Layer/R.L.		RL:52.78	RL:53.50	RL:52.18	RL:53.69	RL:53.54
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.15	2.15	2.04	2.08	2.27
Field Dry Density:	(t/m ³)	1.97	2.01	1.87	1.94	2.13
Retained Oversize (Wet basis):	(%)	6% on 19.0mm	3% on 19.0mm	2% on 19.0mm	3% on 19.0mm	3% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	9.0	7.0	9.0	7.5	6.5
Adjusted Lab OMC:	(%)	10.7	8.7	10.7	9.1	8.3
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.11	2.13	2.06	2.11	2.21
Adjusted Lab Max CWD:	(t/m ³)	2.12	2.13	2.07	2.11	2.21
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	1.5% Drier than OMC	2.0% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	2% Drier than OMC
Moisture Ratio	(%)	85.5	78.0	85.0	81.0	77.0
Density Ratio	(%)	101.5	100.5	98.5	98.5	102.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	99.3	5	100.32	1.78	0.572
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 20/01/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit
 Approved Signatory



ASCT Brisbane South
 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 1

Client:	See Civil Pty Ltd	Report No:	11
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	28/01/2021
Project:	236-240 Montereia Rd, Precinct 2 - Stages 2 & 3, Ripley	Project No:	836
Component:	Bulk Earthworks - Level 1	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:	45260	45261	45262	45263	45264
Field Test Number:	1	2	3	4	5
Date - Field Tested:	20/01/2021	20/01/2021	20/01/2021	20/01/2021	20/01/2021
Time - Field Tested:	0900	0910	0920	0930	0940
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E: 7982.8	E: 7971.2	E: 7998.7	E: 7944.9	E: 7959.5
Position/Offset/Northing:	(m) N: 39471.1	N: 39459.7	N: 39490.6	N: 39446.9	N: 39458.5
Level/Layer/R.L.	RL:54.9	RL:54.8	RL:54.7	RL:54.6	RL:55.0
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.11	2.10	2.14	2.18	2.13
Field Dry Density:	(t/m ³)	1.94	1.92	1.96	2.01	1.95
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	6% on 19.0mm	7% on 19.0mm	5% on 19.0mm	8% on 19.0mm
Material Description:		Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	8.5	9.0	9.0	8.5	9.0
Adjusted Lab OMC:	(%)	10.6	10.5	10.6	10.1	10.8
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.12	2.06	2.15	2.13	2.10
Adjusted Lab Max CWD:	(t/m ³)	2.13	2.08	2.17	2.15	2.14
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC
Moisture Ratio	(%)	81.5	84.5	85.5	84.0	85.0
Density Ratio	(%)	99.0	101.0	98.5	101.5	99.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	99.1	5	99.90	1.39	0.572
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 25/01/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit
 Approved Signatory



ASCT Brisbane South
 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	12
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	28/01/2021
Project:	236-240 Montereia Rd, Precinct 2 - Stages 2 & 3, Ripley	Project No:	836
Component:	Bulk Earthworks - Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:	45277	45278	45279	45280	45281
Field Test Number:	1	2	3	4	5
Date - Field Tested:	21/01/2021	21/01/2021	21/01/2021	21/01/2021	21/01/2021
Time - Field Tested:	1200	1210	1220	1230	1240
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:7950.5	E:7968.5	E:8051.8	E:8033.9	E:7934.1
Position/Offset/Northing:	(m) N:39428.9	N:39423.7	N:39560.5	N:39505.5	N:39433.1
Level/Layer/R.L.	RL:54.4	RL:53.6	RL:54.9	RL:53.9	RL:54.8
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.09	2.21	2.15	2.15	2.04
Field Dry Density:	(t/m ³)	1.92	2.04	1.99	1.98	1.87
Retained Oversize (Wet basis):	(%)	9% on 19.0mm	9% on 19.0mm	4% on 19.0mm	11% on 19.0mm	6% on 19.0mm
Material Description:		Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	9.0	8.5	8.0	8.5	8.5
Adjusted Lab OMC:	(%)	10.6	10.1	9.6	10.1	10.8
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.09	2.17	2.17	2.09	2.03
Adjusted Lab Max CWD:	(t/m ³)	2.13	2.19	2.18	2.13	2.05
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	2% Drier than OMC
Moisture Ratio	(%)	83.5	84.0	84.5	85.0	81.0
Density Ratio	(%)	98.0	101.0	98.5	101.0	99.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	99.1	7	99.74	1.25	0.484
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 25/01/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit
 Approved Signatory



ASCT Brisbane South
 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 2

Client: See Civil Pty Ltd
 Client Address: 108 Siganto Drive, Helensvale QLD 4210
 Project: 236-240 Montereia Rd, Precinct 2 - Stages 2 & 3, Ripley
 Component: Bulk Earthworks - Level 1
 Lot Number: -

Report No: 12
 Report Date: 28/01/2021
 Project No: 836
 Test Request: -
 ITP/PCP:

Sample Information & Location

Sample Number:	45282	45283	-	-	-
Field Test Number:	6	7	-	-	-
Date - Field Tested:	21/01/2021	22/01/2021	-	-	-
Time - Field Tested:	1250	1300	-	-	-
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:8050.2	E:8043.2	-	-	-
Position/Offset/Northing:	(m) N:39544.5	N:39523.4	-	-	-
Level/Layer/R.L.	RL:53.9	RL:54.4	-	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	-	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.09	2.24	-	-	-
Field Dry Density:	(t/m ³)	1.92	2.07	-	-	-
Retained Oversize (Wet basis):	(%)	9% on 19.0mm	11% on 19.0mm	-	-	-
Material Description:		Sandy Clay	Sandy Clay	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-	-
Field Moisture Content:	(%)	9.0	8.5	-	-	-
Adjusted Lab OMC:	(%)	10.9	10.2	-	-	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	-	-	-
Lab Max Converted Wet Density:	(t/m ³)	2.07	2.18	-	-	-
Adjusted Lab Max CWD:	(t/m ³)	2.11	2.22	-	-	-
Compactive Effort:		Standard	Standard	-	-	-

Relative Compaction & Moisture

Moisture Variation	(%)	1.5% Drier than OMC	2% Drier than OMC	-	-	-
Moisture Ratio	(%)	84.0	81.0	-	-	-
Density Ratio	(%)	99.5	101.0	-	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	99.1	7	99.74	1.25	0.484
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 25/01/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
Telephone: 0437 776 582
E-Mail: brisbane.south@asct.com.au
Mobile: 0437 776 582
A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 1

Client: See Civil Pty Ltd
Client Address: 108 Siganto Drive, Helensvale QLD 4210
Project: 236-240 Montereia Rd, Precinct 2 - Stages 2 & 3, Ripley
Component: Bulk Earthworks - Level 1
Lot Number: -

Report No: 13
Report Date: 28/01/2021
Project No: 836
Test Request: -
ITP/PCP:

Sample Information & Location

Sample Number:	45344	45345	45346	45347	45348
Field Test Number:	1	2	3	4	5
Date - Field Tested:	22/01/2021	22/01/2021	22/01/2021	22/01/2021	22/01/2021
Time - Field Tested:	1030	1040	1050	1100	1110
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:7951.7	E:7958.9	E:7955.3	E:7973.3	E:7974.3
Position/Offset/Northing:	(m) N:39450.3	N:39434.2	N:39441.2	N:39431.7	N:39443.8
Level/Layer/R.L.	RL:54.93	RL:54.58	RL:54.78	RL:53.95	RL:54.1
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³) 2.07	2.17	2.14	2.14	2.18
Field Dry Density:	(t/m ³) 1.90	2.00	1.97	1.96	1.99
Retained Oversize (Wet basis):	(%) 3% on 19.0mm	9% on 19.0mm	9% on 19.0mm	4% on 19.0mm	7% on 19.0mm
Material Description:	Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%) 9.0	8.5	8.5	9.0	10.0
Adjusted Lab OMC:	(%) 11.1	10.2	10.0	10.8	11.4
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³) 2.09	2.11	2.12	2.16	2.15
Adjusted Lab Max CWD:	(t/m ³) 2.11	2.14	2.16	2.17	2.17
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%) 2.0% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC
Moisture Ratio	(%) 83.0	83.0	85.0	85.0	86.5
Density Ratio	(%) 98.5	101.0	99.5	98.5	100.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	98.9	5	99.60	1.30	0.572
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), - (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 25/01/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit
Approved Signatory

WB101 - Rev 9, 11/06/20



ASCT Brisbane South
 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 1

Client: See Civil Pty Ltd
 Client Address: 108 Siganto Drive, Helensvale QLD 4210
 Project: 236-240 Montereia Rd, Precinct 2 - Stages 2 & 3, Ripley
 Component: Bulk Earthworks - Level 1
 Lot Number: -

Report No: 14
 Report Date: 4/02/2021
 Project No: 836
 Test Request: -
 ITP/PCP:

Sample Information & Location

Sample Number:	45444	45445	45446	45447	-
Field Test Number:	1	2	3	4	-
Date - Field Tested:	27/01/2021	27/01/2021	27/01/2021	27/01/2021	-
Time - Field Tested:	1300	1310	1320	1330	-
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:7942.9	E:7966.1	E:7957.2	E:7932.2	-
Position/Offset/Northing:	(m) N:39441.6	N:39441.5	N:39439.9	N:39445.2	-
Level/Layer/R.L.	RL:55.5	RL:55.5	RL:55.5	RL:55.5	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	-

Field & Laboratory Results

Field Wet Density:	(t/m ³) 2.12	2.14	2.15	2.11	-
Field Dry Density:	(t/m ³) 1.94	1.95	1.96	1.93	-
Retained Oversize (Wet basis):	(%) 4% on 19.0mm	6% on 19.0mm	6% on 19.0mm	5% on 19.0mm	-
Material Description:	Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-
Field Moisture Content:	(%) 9.0	10.0	9.5	9.0	-
Adjusted Lab OMC:	(%) 11.0	11.7	11.3	11.1	-
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-
Lab Max Converted Wet Density:	(t/m ³) 2.12	2.11	2.12	2.10	-
Adjusted Lab Max CWD:	(t/m ³) 2.13	2.13	2.15	2.12	-
Compactive Effort:	Standard	Standard	Standard	Standard	-

Relative Compaction & Moisture

Moisture Variation	(%) 2.0% Drier than OMC	2.0% Drier than OMC	1.5% Drier than OMC	2% Drier than OMC	-
Moisture Ratio	(%) 83.0	83.0	85.5	83.0	-
Density Ratio	(%) 99.5	100.5	100.0	99.5	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	99.6	4	99.90	0.50	0.640
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 02/02/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit
 Approved Signatory



ASCT Brisbane South
 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	15
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	8/02/2021
Project:	236-240 Montereia Rd, Precinct 2 - Stages 2 & 3, Ripley	Project No:	836
Component:	Bulk Earthworks - Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:	45576	45577	45578	45579	45580
Field Test Number:	1	2	3	4	5
Date - Field Tested:	29/01/2021	29/01/2021	29/01/2021	29/01/2021	29/01/2021
Time - Field Tested:	1300	1310	1320	1330	1340
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:8034.2	E:7950.1	E:8040.1	E:8024.0	E:8020.2
Position/Offset/Northing:	(m) N:39534.5	N:39417.3	N:39543.1	N:39528.2	N:39516.3
Level/Layer/R.L.	RL:54.9	RL:55.2	RL:54.9	RL:54.9	RL:54.9
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.04	2.09	2.13	2.15	2.10
Field Dry Density:	(t/m ³)	1.89	1.93	1.97	1.99	1.94
Retained Oversize (Wet basis):	(%)	1% on 19.0mm	3% on 19.0mm	4% on 19.0mm	9% on 19.0mm	9% on 19.0mm
Material Description:		Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	8.0	8.0	8.0	8.0	8.0
Adjusted Lab OMC:	(%)	9.9	9.5	9.7	9.2	9.8
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.07	2.10	2.16	2.11	2.11
Adjusted Lab Max CWD:	(t/m ³)	2.08	2.12	2.17	2.14	2.14
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC
Moisture Ratio	(%)	80.5	85.0	84.5	85.0	82.5
Density Ratio	(%)	98.5	98.5	98.5	100.5	98.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.9	8	99.60	1.50	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 04/02/2021 to 04/05/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

A. Lenkeit

Approved By: A. Lenkeit
 Approved Signatory



ASCT Brisbane South
 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 2

Client: See Civil Pty Ltd
 Client Address: 108 Siganto Drive, Helensvale QLD 4210
 Project: 236-240 Montereia Rd, Precinct 2 - Stages 2 & 3, Ripley
 Component: Bulk Earthworks - Level 1
 Lot Number: -

Report No: 15
 Report Date: 8/02/2021
 Project No: 836
 Test Request: -
 ITP/PCP: -

Sample Information & Location

Sample Number:		45581	45582	45583	-	-
Field Test Number:		6	7	8	-	-
Date - Field Tested:		29/01/2021	29/01/2021	29/01/2021	-	-
Time - Field Tested:		1350	1400	1410	-	-
Material Source / Type:		Onsite - General Fill				
Remarks / Notes:						
Control Line:		-	-	-	-	-
Location/Chainage/Easting:	(m)	E:7960.8	E:7971.2	E:7980.1	-	-
Position/Offset/Northing:	(m)	N:39414.2	N:39411.4	N:39409.9	-	-
Level/Layer/R.L.		RL:54.8	RL:54.3	RL:53.9	-	-
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	150	150	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.15	2.15	2.18	-	-
Field Dry Density:	(t/m ³)	1.97	1.98	2.01	-	-
Retained Oversize (Wet basis):	(%)	3% on 19.0mm	11% on 19.0mm	8% on 19.0mm	-	-
Material Description:		Sandy Clay	Sandy Clay	Sandy Clay	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
Field Moisture Content:	(%)	9.0	8.5	8.5	-	-
Adjusted Lab OMC:	(%)	11.0	10.6	10.0	-	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density:	(t/m ³)	2.09	2.13	2.12	-	-
Adjusted Lab Max CWD:	(t/m ³)	2.10	2.16	2.15	-	-
Compactive Effort:		Standard	Standard	Standard	-	-

Relative Compaction & Moisture

Moisture Variation	(%)	2% Drier than OMC	2% Drier than OMC	1.5% Drier than OMC	-	-
Moisture Ratio		82.0	80.5	86.0	-	-
Density Ratio	(%)	102.0	99.5	101.5	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.9	8	99.60	1.50	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 04/02/2021 to 04/05/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902



ASCT Brisbane South
 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	16
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	17/02/2021
Project:	236-240 Montereia Rd, Precinct 2 - Stages 2 & 3, Ripley	Project No:	836
Component:	Bulk Earthworks - Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:	46019	46020	46021	46022	46023
Field Test Number:	1	2	3	4	5
Date - Field Tested:	8/02/2021	8/02/2021	8/02/2021	8/02/2021	8/02/2021
Time - Field Tested:	1000	1010	1020	1030	1040
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:7986.6	E:8013.8	E:8015.0	E:8005.8	E:8001.4
Position/Offset/Northing:	(m) N:39442.2	N:39449.9	N:39464.8	N:39442.5	N:39454.4
Level/Layer/R.L.	RL:52.8	RL:50.8	RL:51.0	RL:49.5	RL:49.3
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.18	2.11	2.15	2.19	2.17
Field Dry Density:	(t/m ³)	1.99	1.95	1.99	1.99	2.01
Retained Oversize (Wet basis):	(%)	6% on 19.0mm	2% on 19.0mm	7% on 19.0mm	3% on 19.0mm	9% on 19.0mm
Material Description:		Sandstone	Sandstone	Sandstone	Sandstone	Sandstone
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	9.0	8.0	8.0	10.0	8.0
Adjusted Lab OMC:	(%)	11.2	9.6	10.1	11.5	9.9
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.14	2.13	2.13	2.12	2.12
Adjusted Lab Max CWD:	(t/m ³)	2.16	2.14	2.15	2.13	2.14
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Drier than OMC	1.5% Drier than OMC	2% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC
Moisture Ratio	(%)	82.5	84.5	81.0	85.5	82.5
Density Ratio	(%)	101.0	99.0	100.0	103.0	101.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	99.6	8	100.39	1.70	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 15/02/2021 to 16/02/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By: A.Lenkeit
 Approved Signatory



ASCT Brisbane South
 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 2

Client: See Civil Pty Ltd
 Client Address: 108 Siganto Drive, Helensvale QLD 4210
 Project: 236-240 Montereia Rd, Precinct 2 - Stages 2 & 3, Ripley
 Component: Bulk Earthworks - Level 1
 Lot Number: -

Report No: 16
 Report Date: 17/02/2021
 Project No: 836
 Test Request: -
 ITP/PCP:

Sample Information & Location

Sample Number:		46024	46025	46026	-	-
Field Test Number:		6	7	8	-	-
Date - Field Tested:		8/02/2021	8/02/2021	8/02/2021	-	-
Time - Field Tested:		1050	1100	1110	-	-
Material Source / Type:		Onsite - General Fill				
Remarks / Notes:						
Control Line:		-	-	-	-	-
Location/Chainage/Easting:	(m)	E:8031.2	E:8036.3	E:8030.3	-	-
Position/Offset/Northing:	(m)	N:39457.6	N:39468.7	N:39480.4	-	-
Level/Layer/R.L.		RL:48.7	RL:51.0	RL:52.1	-	-
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	150	150	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.13	2.17	2.13	-	-
Field Dry Density:	(t/m ³)	1.98	2.01	1.96	-	-
Retained Oversize (Wet basis):	(%)	6% on 19.0mm	5% on 19.0mm	7% on 19.0mm	-	-
Material Description:		Sandstone	Sandstone	Sandstone	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
Field Moisture Content:	(%)	8.0	8.0	8.5	-	-
Adjusted Lab OMC:	(%)	9.8	9.9	10.4	-	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density:	(t/m ³)	2.15	2.12	2.15	-	-
Adjusted Lab Max CWD:	(t/m ³)	2.16	2.13	2.17	-	-
Compactive Effort:		Standard	Standard	Standard	-	-

Relative Compaction & Moisture

Moisture Variation	(%)	2% Drier than OMC	2% Drier than OMC	2% Drier than OMC	-	-
Moisture Ratio	(%)	81.5	80.5	81.0	-	-
Density Ratio	(%)	98.5	102.0	98.5	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	99.6	8	100.39	1.70	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 15/02/2021 to 16/02/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902



ASCT Brisbane South
 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	18
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	23/02/2021
Project:	236-240 Montereia Rd, Precinct 2 - Stages 2 & 3, Ripley	Project No:	836
Component:	Bulk Earthworks - Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:	46156	46157	46158	46159	46160
Field Test Number:	1	2	3	4	5
Date - Field Tested:	12/02/2021	12/02/2021	12/02/2021	12/02/2021	12/02/2021
Time - Field Tested:	1400	1410	1420	1430	1440
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:8031.2	E:8001.9	E:8010.8	E:8025.2	E:8024.8
Position/Offset/Northing:	(m) N:39476.7	N:39424.5	N:39430.8	N:39454.9	N:39485.8
Level/Layer/R.L.	RL:53.1	RL:52.4	RL:53.4	RL:52.9	RL:53.2
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.14	2.07	2.12	2.09	2.15
Field Dry Density:	(t/m ³)	1.94	1.87	1.92	1.94	1.99
Retained Oversize (Wet basis):	(%)	5% on 19.0mm	8% on 19.0mm	10% on 19.0mm	8% on 19.0mm	3% on 19.0mm
Material Description:		Sandstone	Sandstone	Sandstone	Sandstone	Sandstone
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	10.0	10.5	10.5	8.0	8.5
Adjusted Lab OMC:	(%)	11.7	11.7	12.4	9.3	10.0
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.10	2.08	2.05	2.05	2.13
Adjusted Lab Max CWD:	(t/m ³)	2.12	2.11	2.08	2.08	2.14
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	1.5% Drier than OMC	1.0% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	2% Drier than OMC
Moisture Ratio	(%)	87.0	89.5	85.5	85.0	82.5
Density Ratio	(%)	101.0	98.5	102.0	100.5	100.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	99.9	6	100.58	1.22	0.523
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 19/02/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit
 Approved Signatory



ASCT Brisbane South

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 2

Client: See Civil Pty Ltd
 Client Address: 108 Siganto Drive, Helensvale QLD 4210
 Project: 236-240 Montereia Rd, Precinct 2 - Stages 2 & 3, Ripley
 Component: Bulk Earthworks - Level 1
 Lot Number: -

Report No: 18
 Report Date: 23/02/2021
 Project No: 836
 Test Request: -
 ITP/PCP:

Sample Information & Location

Sample Number:	46161	-	-	-	-
Field Test Number:	6	-	-	-	-
Date - Field Tested:	12/02/2021	-	-	-	-
Time - Field Tested:	1450	-	-	-	-
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:8015.5	-	-	-	-
Position/Offset/Northing:	(m) N:39472.6	-	-	-	-
Level/Layer/R.L.	RL:53.6	-	-	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	-	-	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.18	-	-	-	-
Field Dry Density:	(t/m ³)	2.00	-	-	-	-
Retained Oversize (Wet basis):	(%)	6% on 19.0mm	-	-	-	-
Material Description:		Sandstone	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	-	-	-	-
Field Moisture Content:	(%)	9.0	-	-	-	-
Adjusted Lab OMC:	(%)	10.6	-	-	-	-
Fraction Tested:		Passing 19.0mm	-	-	-	-
Lab Max Converted Wet Density:	(t/m ³)	2.13	-	-	-	-
Adjusted Lab Max CWD:	(t/m ³)	2.15	-	-	-	-
Compactive Effort:		Standard	-	-	-	-

Relative Compaction & Moisture

Moisture Variation	(%)	1.5% Drier than OMC	-	-	-	-
Moisture Ratio	(%)	85.5	-	-	-	-
Density Ratio	(%)	101.5	-	-	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	99.9	6	100.58	1.22	0.523
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 19/02/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902



ASCT Brisbane South
 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 1

Client:	See Civil Pty Ltd	Report No:	19
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	23/02/2021
Project:	236-240 Montereia Rd, Precinct 2 - Stages 2 & 3, Ripley	Project No:	836
Component:	Bulk Earthworks - Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:	46328	46329	46330	46331	-
Field Test Number:	1	2	3	4	-
Date - Field Tested:	18/02/2021	18/02/2021	18/02/2021	18/02/2021	-
Time - Field Tested:	1400	1410	1420	1430	-
Material Source / Type:	Onsite - General fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:7898.3	E:7899.2	E:7902.6	E:7894.1	-
Position/Offset/Northing:	(m) N:39433.1	N:39415.6	N:39425.6	N:39430.2	-
Level/Layer/R.L.	RL:55.6	RL:54.9	RL:55.1	RL:54.7	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.11	2.13	2.09	2.12	-
Field Dry Density:	(t/m ³)	1.90	1.94	1.88	1.89	-
Retained Oversize (Wet basis):	(%)	5% on 19.0mm	4% on 19.0mm	5% on 19.0mm	4% on 19.0mm	-
Material Description:		Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-
Field Moisture Content:	(%)	11.0	10.0	11.5	11.5	-
Adjusted Lab OMC:	(%)	12.4	12.1	12.9	13.7	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-
Lab Max Converted Wet Density:	(t/m ³)	2.09	2.14	2.09	2.13	-
Adjusted Lab Max CWD:	(t/m ³)	2.11	2.15	2.10	2.14	-
Compactive Effort:		Standard	Standard	Standard	Standard	-

Relative Compaction & Moisture

Moisture Variation	(%)	1.5% Drier than OMC	2.0% Drier than OMC	1.5% Drier than OMC	2% Drier than OMC	-
Moisture Ratio	(%)	87.5	83.5	88.0	85.5	-
Density Ratio	(%)	100.0	99.0	99.5	99.0	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	99.0	4	99.28	0.43	0.640
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)


Remarks Regarding the Lot.

Laboratory testing 20/02/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By: 
 Approved Signatory



ASCT Brisbane South
 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 1

Client:	See Civil Pty Ltd	Report No:	22
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	25/02/2021
Project:	236-240 Montereia Rd, Precinct 2 - Stages 2 & 3, Ripley	Project No:	836
Component:	Bulk Earthworks - Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:	46381	46382	46383	46384	-
Field Test Number:	1	2	3	4	-
Date - Field Tested:	22/02/2021	22/02/2021	22/02/2021	22/02/2021	-
Time - Field Tested:	1000	1010	1020	1030	-
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	
Location/Chainage/Easting:	(m) E:7903.7	E:7904.6	E:7900.3	E:7895.9	-
Position/Offset/Northing:	(m) N:39428.5	N:39419.2	N:39410.3	N:39400.3	-
Level/Layer/R.L.	RL:56.3	RL:55.9	RL:55.6	RL:55.4	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	-

Field & Laboratory Results

Field Wet Density:	(t/m ³) 2.12	2.07	2.15	2.08	-
Field Dry Density:	(t/m ³) 1.91	1.87	1.93	1.86	-
Retained Oversize (Wet basis):	(%) 2% on 19.0mm	1% on 19.0mm	1% on 19.0mm	1% on 19.0mm	-
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-
Field Moisture Content:	(%) 10.5	10.5	11.0	12.0	-
Adjusted Lab OMC:	(%) 12.5	12.6	12.8	13.1	-
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-
Lab Max Converted Wet Density:	(t/m ³) 2.11	2.11	2.14	2.12	-
Adjusted Lab Max CWD:	(t/m ³) 2.12	2.11	2.14	2.12	-
Compactive Effort:	Standard	Standard	Standard	Standard	-

Relative Compaction & Moisture

Moisture Variation	(%) 2.0% Drier than OMC	2.0% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	-
Moisture Ratio	(%) 85.0	84.0	88.0	90.0	-
Density Ratio	(%) 100.0	98.0	100.0	98.0	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	98.2	4	99.03	1.24	0.640
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 23/02/2021 to 24/02/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By: A.Lenkeit
 Approved Signatory



ASCT Brisbane South
 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 1

Client:	See Civil Pty Ltd	Report No:	24
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	26/02/2021
Project:	236-240 Montereia Rd, Precinct 2 - Stages 2 & 3, Ripley	Project No:	836
Component:	Bulk Earthworks - Level 1	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:	46478	46479	46480	46481	46482
Field Test Number:	1	2	3	4	5
Date - Field Tested:	23/02/2021	23/02/2021	23/02/2021	23/02/2021	23/02/2021
Time - Field Tested:	1000	1010	1020	1030	1040
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:7914.3	E:7901.7	E:7913.2	E:7904.4	E:7897.7
Position/Offset/Northing:	(m) N:39422.1	N:39409.4	N:39430.1	N:39433.2	N:39420.7
Level/Layer/R.L.	RL:56.4	RL:56.2	RL:56.0	RL:56.6	RL:56.3
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.04	1.99	2.15	2.17	2.11
Field Dry Density:	(t/m ³)	1.80	1.74	2.01	2.00	1.93
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	1% on 19.0mm	1% on 19.0mm	2% on 19.0mm	1% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	13.5	14.5	7.5	8.5	9.5
Adjusted Lab OMC:	(%)	15.6	16.3	8.6	10.1	11.2
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.00	2.00	2.15	2.14	2.10
Adjusted Lab Max CWD:	(t/m ³)	2.00	2.01	2.15	2.14	2.10
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	2% Drier than OMC
Moisture Ratio	(%)	87.0	90.0	85.0	85.0	83.5
Density Ratio	(%)	102.0	99.0	100.0	101.5	100.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	100.0	5	100.60	1.06	0.572
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 24/02/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit
 Approved Signatory



ASCT Brisbane South
 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 1

Client:	See Civil Pty Ltd	Report No:	39
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	8/03/2021
Project:	236-240 Montereia Rd, Precinct 2 - Stages 2 & 3, Ripley	Project No:	836
Component:	Bulk Earthworks - Level 1	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:		46540	46541	46542	46543	-
Field Test Number:		1	2	3	4	-
Date - Field Tested:		25/02/2021	25/02/2021	25/02/2021	25/02/2021	-
Time - Field Tested:		1000	1010	1020	1030	-
Material Source / Type:		Onsite - General Fill				
Remarks / Notes:						
Control Line:		-	-	-	-	
Location/Chainage/Easting:	(m)	E:39775.8	E:39786.3	E:39798.5	E:39801.3	-
Position/Offset/Northing:	(m)	N:8040.1	N:8046.1	N:8043.4	N:8005.7	-
Level/Layer/R.L.		RL:58.4	RL:57.7	RL:57.1	RL:58.2	-
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	150	150	150	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.13	2.11	2.12	2.13	-
Field Dry Density:	(t/m ³)	1.92	1.90	1.88	1.93	-
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	2% on 19.0mm	1% on 19.0mm	2% on 19.0mm	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-
Field Moisture Content:	(%)	11.0	11.0	12.5	10.0	-
Adjusted Lab OMC:	(%)	12.5	12.5	14.4	12.0	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-
Lab Max Converted Wet Density:	(t/m ³)	2.11	2.09	2.11	2.12	-
Adjusted Lab Max CWD:	(t/m ³)	2.12	2.10	2.11	2.13	-
Compactive Effort:		Standard	Standard	Standard	Standard	-

Relative Compaction & Moisture

Moisture Variation	(%)	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	2% Drier than OMC	-
Moisture Ratio	(%)	88.5	86.5	88.0	85.5	-
Density Ratio	(%)	100.5	100.5	100.5	100.0	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	100	100.2	4	100.30	0.16	0.640
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 04/03/2021 to 05/03/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit
 Approved Signatory

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125

Laboratory: 4/31 Tradelink Road Hillcrest Q 4118

Telephone: 0437 776 582

E-Mail: brisbane.south@asct.com.au

Mobile: 0437 776 582

A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 1

Client: See Civil Pty Ltd
Client Address: 108 Siganto Drive, Helensvale QLD 4210
Project: 236-240 Montereia Rd, Precinct 2 - Stages 2 & 3, Ripley
Component: Bulk Earthworks - Level 1
Lot Number: -

Report No: **85**
Report Date: 21/06/2021
Project No: 836
Test Request: -
ITP/PCP: -

Sample Information & Location

Sample Number:		50240	50241	50242	50243	-
Field Test Number:		-	-	-	-	-
Date - Field Tested:		4/06/2021	4/06/2021	4/06/2021	4/06/2021	-
Time - Field Tested:		0700	0710	0720	0730	-
Material Source / Type:		Onsite - General Fill				
Remarks / Notes:						
Control Line:		Verge next to Basin	Allotment 141	Allotment 142	Allotment 143	
Location/Chainage/Easting:	(m)	E:8050.4	2m off Northern Boundary	4m off Northern Boundary	3m off Northern Boundary	-
Position/Offset/Northing:	(m)	N:39874.5	5m off Eastern Boundary	6m off Eastern Boundary	5m off Eastern Boundary	-
Level/Layer/R.L.		RL:54.1	F/L	0.5m BFL	0.5m BFL	-
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	150	150	150	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.08	2.12	2.13	2.12	-
Field Dry Density:	(t/m ³)	1.87	1.90	1.91	1.87	-
Retained Oversize (Wet basis):	(%)	3% on 19.0mm	2% on 19.0mm	2% on 19.0mm	2% on 19.0mm	-
Material Description:		Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-
Field Moisture Content:	(%)	11.0	11.5	12.0	13.5	-
Adjusted Lab OMC:	(%)	13.1	13.1	13.5	14.9	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-
Lab Max Converted Wet Density:	(t/m ³)	2.11	2.13	2.13	2.14	-
Adjusted Lab Max CWD:	(t/m ³)	2.12	2.13	2.13	2.14	-
Compactive Effort:		Standard	Standard	Standard	Standard	-

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Dryer than OMC	1.5% Dryer than OMC	1.5% Dryer than OMC	1.5% Dryer than OMC	-
Moisture Ratio	(%)	84.5	89.0	89.0	90.0	-
Density Ratio	(%)	98.0	99.0	100.0	99.0	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	98.6	4	99.08	0.75	0.640
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	-2	86.7	4	88.23	2.40	0.640
Maximum (%)	2	89.8	4	88.23	2.40	0.640

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 18/06/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

K. Wesener
Approved Signatory

Appendix C

Individual Lot Certificates



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

28th June 2021
Ref No: 836_Level 1 Report_Lot 107

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 107 –236-240 Montereia Road Ripley_Stage 2 & 3

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 *'Guidelines on earthworks for commercial and residential developments'*.

Fill was placed on the allotment between 18/12/2020 and 4/06/2021.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **107** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our Level 1 report **Ref No: 836_Level 1 Report_236-240 Montereia Road Ripley_Stage 2 & 3** Dated 28th June 2021.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

28th June 2021

Ref No: 836_Level 1 Report_Lot 111

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 111 –236-240 Montereia Road Ripley_Stage 2 & 3

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 *'Guidelines on earthworks for commercial and residential developments'*.

Fill was placed on the allotment between 18/12/2020 and 4/06/2021.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **111** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our Level 1 report **Ref No: 836_Level 1 Report_236-240 Montereia Road Ripley_Stage 2 & 3** Dated 28th June 2021.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

28th June 2021

Ref No: 836_Level 1 Report_Lot 112

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 112 –236-240 Montereia Road Ripley_Stage 2 & 3

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 *'Guidelines on earthworks for commercial and residential developments'*.

Fill was placed on the allotment between 18/12/2020 and 4/06/2021.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **112** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our Level 1 report **Ref No: 836_Level 1 Report_236-240 Montereia Road Ripley_Stage 2 & 3** Dated 28th June 2021.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

28th June 2021

Ref No: 836_Level 1 Report_Lot 113

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 113 –236-240 Montereia Road Ripley_Stage 2 & 3

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 *'Guidelines on earthworks for commercial and residential developments'*.

Fill was placed on the allotment between 18/12/2020 and 4/06/2021.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **113** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our Level 1 report **Ref No: 836_Level 1 Report_236-240 Montereia Road Ripley_Stage 2 & 3** Dated 28th June 2021.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

28th June 2021
Ref No: 836_Level 1 Report_Lot 114

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 114 –236-240 Montereia Road Ripley_Stage 2 & 3

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 *'Guidelines on earthworks for commercial and residential developments'*.

Fill was placed on the allotment between 18/12/2020 and 4/06/2021.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **114** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our Level 1 report **Ref No: 836_Level 1 Report_236-240 Montereia Road Ripley_Stage 2 & 3** Dated 28th June 2021.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

28th June 2021
Ref No: 836_Level 1 Report_Lot 123

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 123 –236-240 Montereia Road Ripley_Stage 2 & 3

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 *'Guidelines on earthworks for commercial and residential developments'*.

Fill was placed on the allotment between 18/12/2020 and 4/06/2021.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **123** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our Level 1 report **Ref No: 836_Level 1 Report_236-240 Montereia Road Ripley_Stage 2 & 3** Dated 28th June 2021.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

28th June 2021
Ref No: 836_Level 1 Report_Lot 124

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 124 –236-240 Montereia Road Ripley_Stage 2 & 3

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 *'Guidelines on earthworks for commercial and residential developments'*.

Fill was placed on the allotment between 18/12/2020 and 4/06/2021.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **124** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our Level 1 report **Ref No: 836_Level 1 Report_236-240 Montereia Road Ripley_Stage 2 & 3** Dated 28th June 2021.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

28th June 2021

Ref No: 836_Level 1 Report_Lot 125

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 125 –236-240 Montereia Road Ripley_Stage 2 & 3

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 *'Guidelines on earthworks for commercial and residential developments'*.

Fill was placed on the allotment between 18/12/2020 and 4/06/2021.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **125** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our Level 1 report **Ref No: 836_Level 1 Report_236-240 Montereia Road Ripley_Stage 2 & 3** Dated 28th June 2021.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

28th June 2021
Ref No: 836_Level 1 Report_Lot 126

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 126 –236-240 Montereia Road Ripley_Stage 2 & 3

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 *'Guidelines on earthworks for commercial and residential developments'*.

Fill was placed on the allotment between 18/12/2020 and 4/06/2021.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **126** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our Level 1 report **Ref No: 836_Level 1 Report_236-240 Montereia Road Ripley_Stage 2 & 3** Dated 28th June 2021.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

28th June 2021
Ref No: 836_Level 1 Report_Lot 127

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 127 –236-240 Montereia Road Ripley_Stage 2 & 3

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 *'Guidelines on earthworks for commercial and residential developments'*.

Fill was placed on the allotment between 18/12/2020 and 4/06/2021.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **127** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our Level 1 report **Ref No: 836_Level 1 Report_236-240 Montereia Road Ripley_Stage 2 & 3** Dated 28th June 2021.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

28th June 2021

Ref No: 836_Level 1 Report_Lot 132

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 132 –236-240 Montereia Road Ripley_Stage 2 & 3

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 *'Guidelines on earthworks for commercial and residential developments'*.

Fill was placed on the allotment between 18/12/2020 and 4/06/2021.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **132** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our Level 1 report **Ref No: 836_Level 1 Report_236-240 Montereia Road Ripley_Stage 2 & 3** Dated 28th June 2021.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

28th June 2021
Ref No: 836_Level 1 Report_Lot 429

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 429 –236-240 Montereia Road Ripley_Stage 2 & 3

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 *'Guidelines on earthworks for commercial and residential developments'*.

Fill was placed on the allotment between 18/12/2020 and 4/06/2021.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **429** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our Level 1 report **Ref No: 836_Level 1 Report_236-240 Montereia Road Ripley_Stage 2 & 3** Dated 28th June 2021.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

28th June 2021
Ref No: 836_Level 1 Report_Lot 430

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 430 –236-240 Montereia Road Ripley_Stage 2 & 3

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 *'Guidelines on earthworks for commercial and residential developments'*.

Fill was placed on the allotment between 18/12/2020 and 4/06/2021.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **430** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our Level 1 report **Ref No: 836_Level 1 Report_236-240 Montereia Road Ripley_Stage 2 & 3** Dated 28th June 2021.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

28th June 2021
Ref No: 836_Level 1 Report_Lot 431

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 431 –236-240 Montereia Road Ripley_Stage 2 & 3

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 *'Guidelines on earthworks for commercial and residential developments'*.

Fill was placed on the allotment between 18/12/2020 and 4/06/2021.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **431** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our Level 1 report **Ref No: 836_Level 1 Report_236-240 Montereia Road Ripley_Stage 2 & 3** Dated 28th June 2021.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

28th June 2021

Ref No: 836_Level 1 Report_Lot 432

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 432 –236-240 Montereia Road Ripley_Stage 2 & 3

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 *'Guidelines on earthworks for commercial and residential developments'*.

Fill was placed on the allotment between 18/12/2020 and 4/06/2021.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **432** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our Level 1 report **Ref No: 836_Level 1 Report_236-240 Montereia Road Ripley_Stage 2 & 3** Dated 28th June 2021.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

28th June 2021
Ref No: 836_Level 1 Report_Lot 433

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 433 –236-240 Montereia Road Ripley_Stage 2 & 3

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 *'Guidelines on earthworks for commercial and residential developments'*.

Fill was placed on the allotment between 18/12/2020 and 4/06/2021.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **433** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our Level 1 report **Ref No: 836_Level 1 Report_236-240 Montereia Road Ripley_Stage 2 & 3** Dated 28th June 2021.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au