

LEVEL ONE

Reference
No.: 1862-168

SURVEILLANCE

AND INSPECTION REPORT

*Carried Out
By*



PREPARED FOR: -

DRAPERS CIVIL CONTRACTING PTY LTD



Table of Contents

1)	Introduction & Scope.....	2
2)	Site Preparation.....	2
3)	Fill Material.....	2
4)	Fill Construction Procedure.....	3
5)	Compaction Control Testing.....	3
6)	Testing Frequency.....	3
7)	Statement of Compliance.....	4
8)	Limitations of this Report.....	4

Appendices

Appendix A Construction Drawings

Appendix B Daily Field Compaction Summary Results



Client Name: Drapers Civil Contracting Pty Ltd

Project Name: Armstrong Estate - Stage 33

Date: 30th June 2022

Author: Mr. Sam Loza

Reference No.: 1862-168

Revision: 0

Project Manager: Mr. Chris Nation

1. Introduction & Scope

At the request of Drapers Civil Contracting Pty Ltd, Geotechnical Laboratories has carried out inspection and testing of the above-mentioned site from the 22nd of November 2021 to the 9th of December 2021 where a residential development is being constructed. Inspection and testing of stripping, material quality and compaction control tests were carried out to comply with the requirements of AS 3798 Appendix B, Level 1.

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

(1). Creo Consultants Construction Drawing No. L013901 R200 Rev 1.

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

2. Site Preparation

Site inspections were undertaken on the 10th of November 2021 confirming that selected areas to be filled were completely stripped of topsoil and existing pavement materials prior to filling. The brown silty topsoils had been stockpiled around the site for later removal off-site.

Initial proof roll inspections were performed and subsequently throughout the project duration to ensure no significant soft areas were present prior to filling.

3. Fill Material

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



The fill material is best described as a silty CLAY, brown, grey-brown, slightly moist to moist, medium plasticity with basalt gravels and occasional cobble.

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

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

4. Fill Construction Procedure

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

- Dump trucks / highway trucks
- A watercart
- A sheepsfoot compactor (815)

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

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

5. Compaction Control Testing

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

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

6. Testing Frequency

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

Acceptance of fill layers for compaction was based on the requirements of **AS 3798 - 2007 Table 5.1 Item 1. Residential.** As a result, the compliance criteria adopted by Geotechnical Laboratories was a hilf density ratio not less than 95 percent of the maximum hilf density value as determined by the Standard Hilf Rapid Compaction Method in accordance with AS 1289 5.7.1.



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

No moisture criteria was specified.

7. Statement of Compliance

So far as can be determined, Drapers Civil Contracting Pty Ltd has satisfactorily complied with the compaction and construction processes required for the structural filling of this site. As such, structural filling placed on this site by Drapers Civil Contracting Pty Ltd from the 22nd of November 2021 to the 9th of December 2021 can be categorised as CONTROLLED FILL in accordance with AS 2870-2011.

8. Limitations and Liability of this Report

This report has been produced for and remains the property of Drapers Civil Contracting Pty Ltd.

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

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

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

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

For & on behalf of
Geotechnical Laboratories Pty Ltd.

Sam Loza
Laboratory Manager.

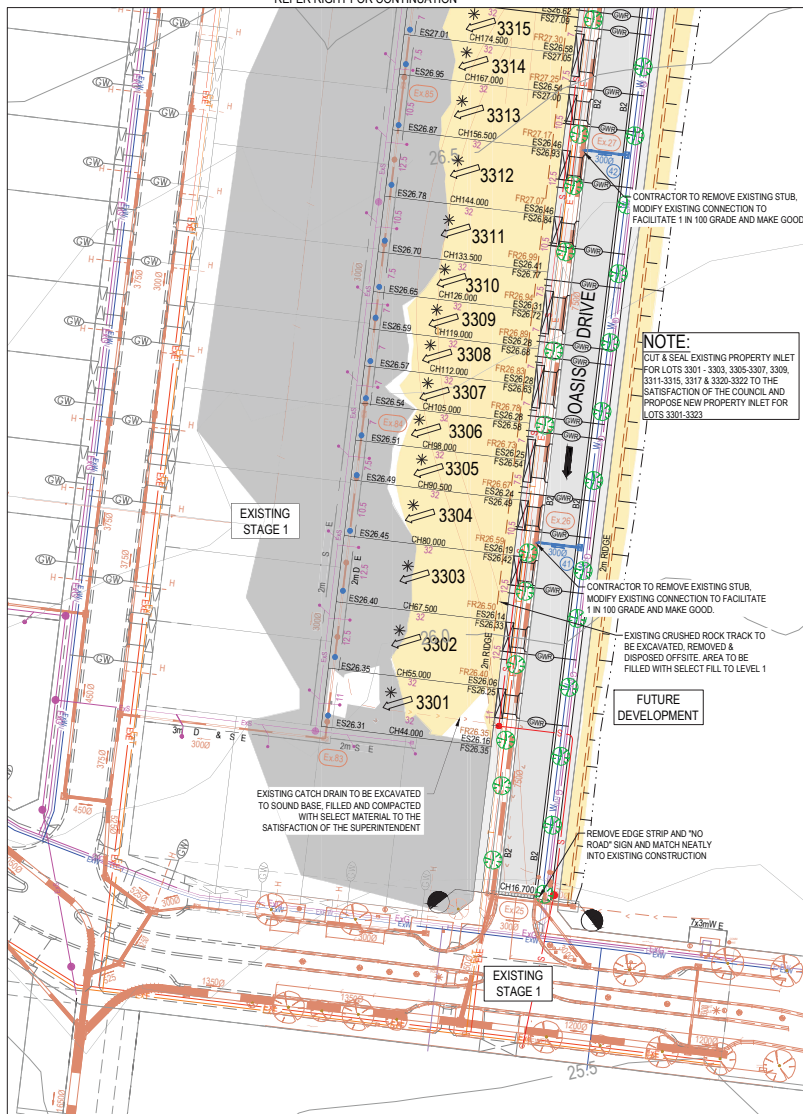


LEVEL ONE
SURVEILLANCE
AND INSPECTION REPORT

APPENDIX A



REFER RIGHT FOR CONTINUATION



SERVICES OFFSET SCHEDULE

ROAD NAME	GAS		RECYCLE WATER		POTABLE WATER		TELSTRA		ELECTRICITY	
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET
MANNA GUM DRIVE	N	2.10	N	2.50	N	3.20	S	1.775	S	2.40
OASIS DRIVE	E	2.10	E	2.50	E	3.20	W	1.775	W	2.40

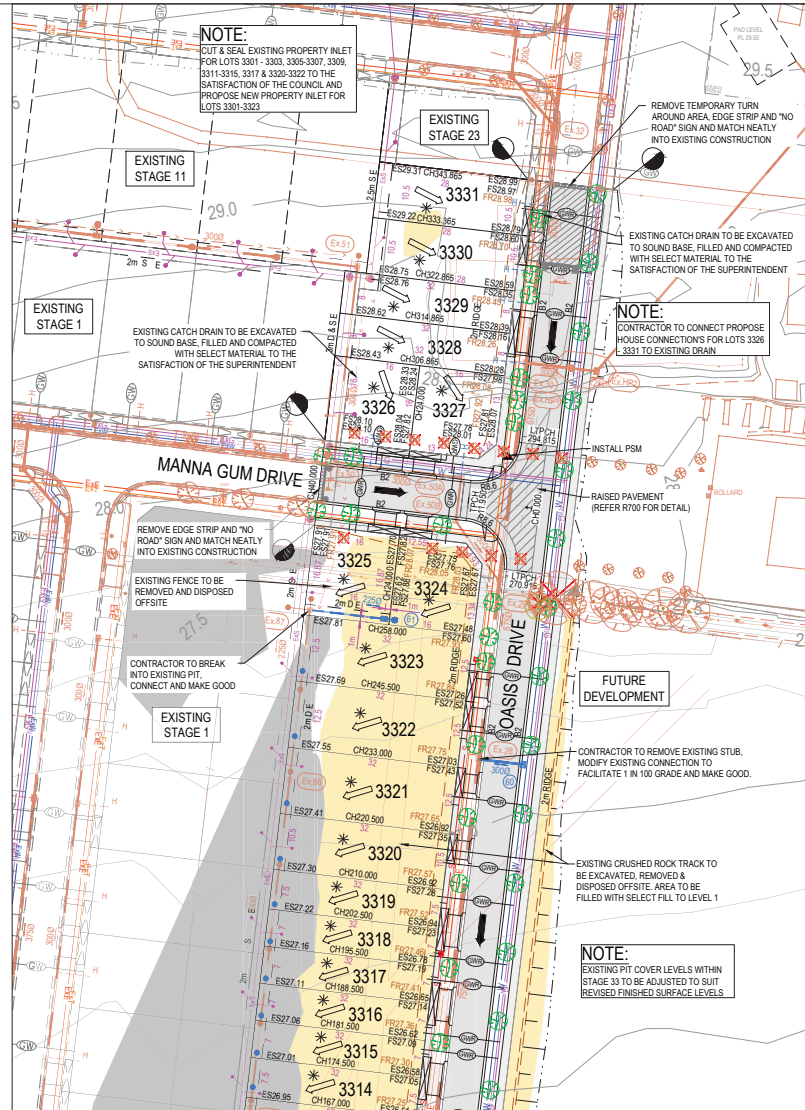
NOTE: STREET TREES TO BE INSTALLED IN THE CENTRE OF ALL NATURE STRIPS



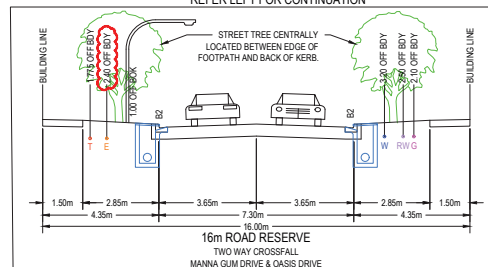
REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
1	01/09/21	REVISED ELEC OFFSETS	C.ROHDE	M.TROUNCE	T.PALIOS
0	25/08/21	CONSTRUCTION ISSUE	C.ROHDE	M.TROUNCE	T.PALIOS
C	24/08/21	AMENDED TO COUNCIL COMMENTS (20/08/21)	C.ROHDE	M.TROUNCE	T.PALIOS
B	06/09/21	TENDER ISSUE	C.ROHDE	M.TROUNCE	T.PALIOS
A	28/07/2021	ISSUED FOR APPROVAL	B.LEECH	M.TROUNCE	T.PALIOS



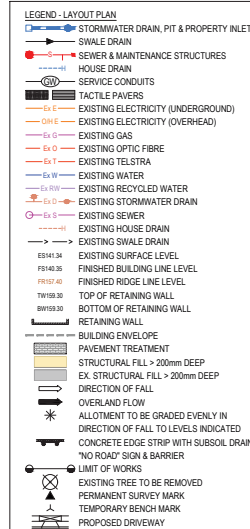
Suite 1, 2 Bloomsbury Street
Geelong, VIC, Australia 3220



REFER LEFT FOR CONTINUATION



CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL



- NOTES:
- ALL VEHICLE AND PRAM CROSSING LAYBACKS, TO BE MINIMUM OF 1.0m FROM PITS.
 - ALL PRAM CROSSINGS TO BE A MINIMUM 2.0m FROM VEHICLE CROSSINGS.
 - ALL PRAM CROSSINGS TO BE DDA COMPLIANT.
 - VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF LANDSCAPE WORKS.
 - THE USE OF DIRECTIONAL AND HAZARD TACTILE PAVERS MUST ACCORD WITH SECTION 2.2.3.1 OF AS/NZS 1428.4:2002.
 - SEWER MAINTENANCE HOLE CONVERTER SLAB OR CONE, TO BE NOTED TO ENSURE COVER POSITION IS CENTRALLY LOCATED WITHIN FOOTPATH.
 - CHAINAGES FOR SETOUT OF PROPERTY INLET POINTS, SERVING FUTURE LOTS, ARE MEASURED FROM THE DOWNSTREAM PIT.
 - CONTRACTOR TO LOCATE ALL EXISTING ASSETS PRIOR TO COMMENCEMENT OF WORKS. ANY DAMAGE TO EXISTING ASSETS TO BE RECTIFIED AT CONTRACTORS EXPENSE.
 - CONTRACTOR TO VERIFY DEPTH OF EXISTING SERVICES, PRIOR TO COMMENCEMENT OF CONSTRUCTION.

NOTE: STREET TREE LOCATIONS SHOWN ARE INDICATIVE ONLY. ULTIMATE LOCATION IS TO BE PROVIDED/CONFIRMED BY LANDSCAPE ARCHITECTS

WARNING
BEWARE OF UNDERGROUND & OVERHEAD SERVICES
The locations of underground & overhead services are approximate only & their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works.
DIAL 1100 BEFORE YOU DIG
www.1100.com.au



ISSUED FOR CONSTRUCTION

ARMSTRONG - STAGE 33
LAYOUT PLAN



SCALE AT A1	DRAWN	DESIGNED
1:500 @ A1	BLEACH	C.ROHDE
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	T.PALIOS	JULY 2021
PROJECT No.	DRAWING No.	REVISION
L013901	R200	1



LEVEL ONE
SURVEILLANCE
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APPENDIX B



GEOTECHNICAL LABORATORIES
ACN 102 571 077

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

DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 1861/309

LOCATION: DRAPERS - Armstrong Estate, Stage 33

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)
22/11/21	1	<i>Refer to #1861/310 for approx. test site locations.</i>	2.02	13.0	97.0	2.08	15.5	175	2.5 Drier	84.0	0	0	0
22/11/21	2		2.14	11.5	102.0	2.09	14.0	175	2.5 Drier	81.0	0	0	0
22/11/21	3		2.19	13.0	103.5	2.11	15.5	175	2.5 Drier	84.0	0	0	0
22/11/21	4		2.11	10.5	102.0	2.07	14.5	175	4.0 Drier	73.5	0	0	0
22/11/21	5		2.19	16.0	105.0	2.09	16.5	175	0.5 Drier	97.0	0	0	0
22/11/21	6		2.10	18.5	104.0	2.02	19.5	175	1.0 Drier	95.0	0	0	0

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 11:00am Finish Time: 12:00pm

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

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

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

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)

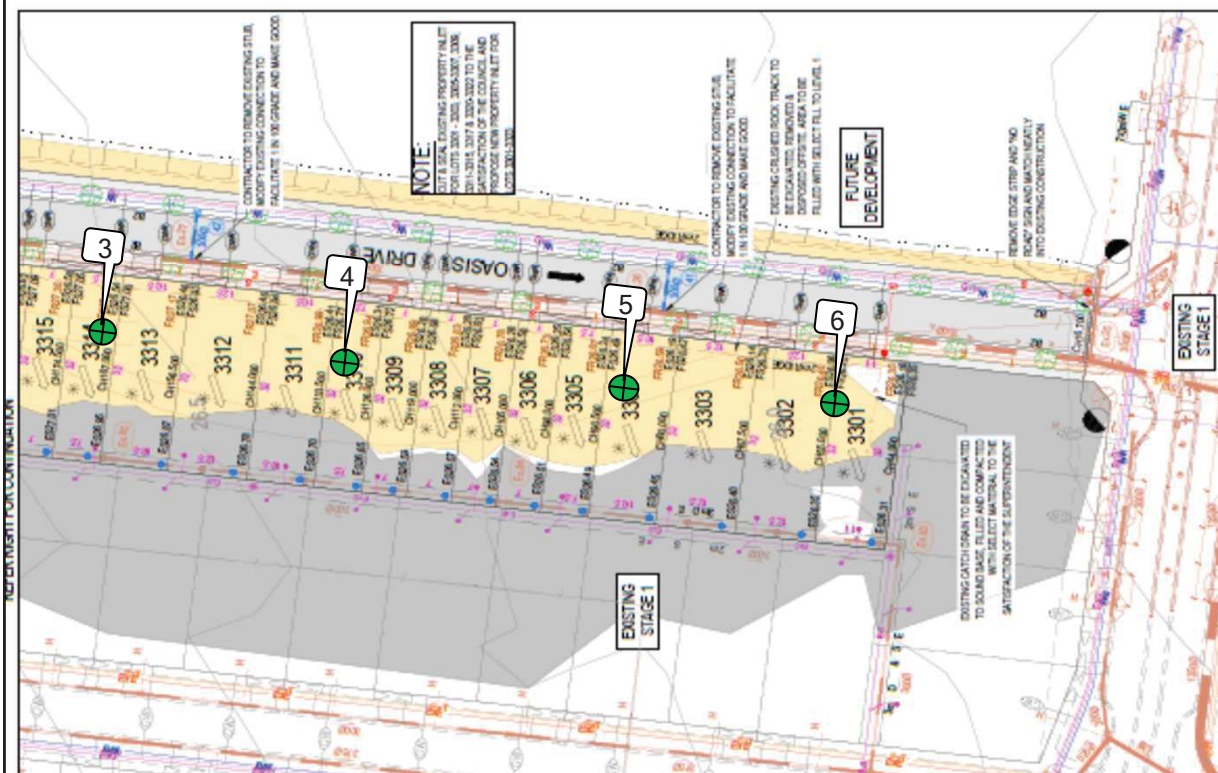
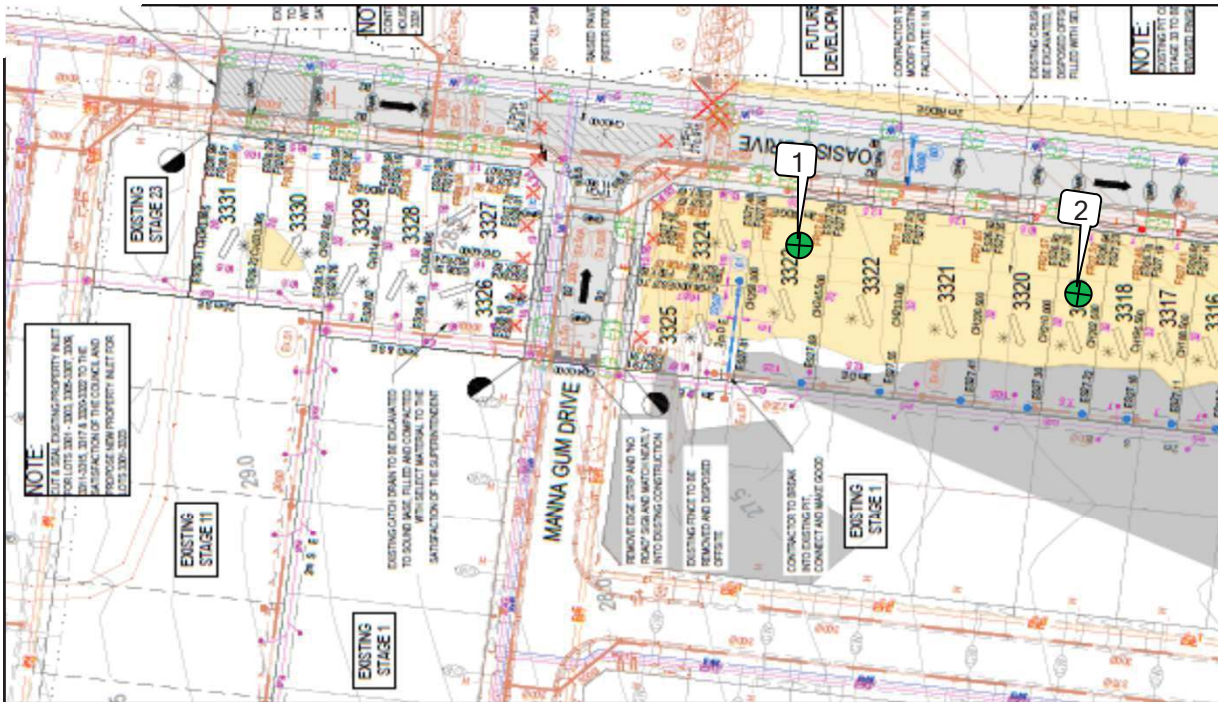


Accredited for compliance with ISO/IEC
17025 - Testing

NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

Issue Date: 26/11/2021



GEOTECHNICAL LABORATORIES

ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023

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

CLIENT: DRAPERS

LOCATION: Armstrong Estate Stage 33

Sketch indicating approx. compaction test locations

DATE: 22/11/2021

JOB No.: 1861/310

OPERATOR: PV/VN

CHECKED: KK

SCALE: NTS

FIGURE No: -



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DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 1861/321

LOCATION: DRAPERS - Armstrong, Stage 33, Mt Duneed

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)
9/12/21	1	Refer to #1861/326 for approx. test site locations.	2.08	21.5	101.0	2.06	21.0	175	0.5 Wetter	103.5	0	0	0
9/12/21	2		2.03	19.0	99.0	2.05	18.5	175	0.5 Wetter	102.5	0	0	0
9/12/21	3		2.07	20.5	102.0	2.03	20.0	175	0.5 Wetter	103.5	0	0	0
9/12/21	4		2.05	16.0	99.5	2.05	18.5	175	2.5 Drier	87.5	0	0	0
9/12/21	5		2.07	15.0	101.5	2.04	17.5	175	2.5 Drier	87.0	0	0	0
9/12/21	6		2.16	15.5	103.0	2.10	15.5	175	0.0 Drier	100.0	0	0	0

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 7:45am Finish Time: 12:00pm

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

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

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

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)



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NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

Issue Date: 14/12/2021



GEOTECHNICAL LABORATORIES
ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
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DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 1861/322

LOCATION: DRAPERS - Armstrong, Stage 33, Mt Duneed

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)
9/12/21	7	<i>Refer to #1861/326 for approx. test site locations.</i>	2.13	15.5	104.5	2.04	18.0	175	3.0 Drier	85.0	0	0	0
9/12/21	8		2.09	18.0	100.0	2.09	18.5	175	0.0 Drier	98.5	0	0	0
9/12/21	9		2.13	14.0	101.5	2.09	15.0	175	1.0 Drier	92.5	0	0	0
9/12/21	10		2.07	18.0	100.0	2.07	18.5	175	0.0 Drier	98.5	0	0	0
9/12/21	11		2.06	19.0	99.5	2.07	19.0	175	0.0 Drier	100.0	0	0	0
9/12/21	12		2.02	21.0	97.5	2.06	20.5	175	0.5 Wetter	103.5	0	0	0

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 7:45am Finish Time: 12:00pm

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

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

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

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)



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MICK CROWE
(Approved Signatory)

Issue Date: 14/12/2021



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14 Ravenhall Way, Ravenhall, Vic 3023
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DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 1861/323

LOCATION: DRAPERS - Armstrong, Stage 33, Mt Duneed

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)
9/12/21	13	<i>Refer to #1861/326 for approx. test site locations.</i>	1.97	19.5	98.0	2.01	20.5	175	1.0 Drier	95.5	0	0	0
9/12/21	14		2.06	20.0	101.5	2.03	20.0	175	0.0 Drier	100.0	0	0	0
9/12/21	15		2.01	19.0	98.5	2.04	18.5	175	0.5 Wetter	102.5	0	0	0
9/12/21	16		1.94	26.0	96.5	2.02	24.0	175	2.0 Wetter	108.5	0	0	0
9/12/21	17		1.91	27.5	95.0	2.01	24.0	175	3.5 Wetter	115.0	0	0	0
9/12/21	18		2.03	22.5	100.5	2.02	22.0	175	0.0 Wetter	101.0	0	0	0

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 7:45am Finish Time: 12:00pm

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

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

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

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)



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NATA Accredited Laboratory Number 14561

MICK CROWE
(Approved Signatory)

Issue Date: 14/12/2021



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DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 1861/324

LOCATION: DRAPERS - Armstrong, Stage 33, Mt Duneed

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)
9/12/21	19	<i>Refer to #1861/326 for approx. test site locations.</i>	1.98	18.5	98.5	2.02	18.5	175	0.0 Wetter	101.5	0	0	0
9/12/21	20		2.06	18.5	102.0	2.01	18.5	175	0.0 Drier	100.0	0	0	0
9/12/21	21		2.17	15.5	99.5	✕ 2.18	15.5	175	0.0 Drier	100.0	5	0	0
9/12/21	22		2.10	19.5	100.0	2.10	19.0	175	0.5 Wetter	104.0	0	0	0
9/12/21	23		2.03	17.5	97.0	2.09	18.0	175	0.0 Drier	98.5	0	0	0
9/12/21	24		2.05	18.0	97.5	2.10	18.0	175	0.0 Drier	98.5	0	0	0

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 7:45am Finish Time: 12:00pm

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

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

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

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)

✕ Indicates APCWD



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17025 - Testing

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ACN 102 571 077

14 Ravenhall Way, Ravenhall, Vic 3023
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DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 1861/325

LOCATION: DRAPERS - Armstrong, Stage 33, Mt Duneed

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m ³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)
9/12/21	25	<i>Refer to #1861/326 for approx. test site locations.</i>	2.01	19.5	99.0	2.04	19.5	175	0.5 Drier	97.5	0	0	0
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Clayey Fill Ex. Onsite

Test sites located - Geolab Procedure 4, Part 4.4.

Compaction specimens sampled after compaction.

Start Time: 7:45am Finish Time: 12:00pm

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

Moisture Content: AS 1289 2.1.1

Compaction Test: AS 1289 5.7.1

Soil Layer thickness: 200mm

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

Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)



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17025 - Testing

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MICK CROWE
(Approved Signatory)

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