

DRAPERS CIVIL  
CONTRACTING PTY LTD

THE QUAY 2 ESTATE  
STAGE 10

1505-1535 SURF COAST HWY  
TORQUAY

*Report On*

LEVEL 1  
SURVEILLANCE  
& COMPACTION CONTROL  
OF EARTHWORKS

*Carried Out  
By*



Project No.: 1917/041



Factory 1/8-10 Catalina Dve, Tullamarine, Vic 3043  
PO Box 2693, Gladstone Park, Vic, 3043  
ABN 51 102 571 077  
PH (03) 9335-1225

9<sup>th</sup> November 2017  
Project No.:1917/041

Drapers Civil Contracting Pty Ltd  
PO Box 287  
Belmont, Vic 3216  
Attention: - Mr. Matthew Jackman

Dear Sir,

**RE: The Quay 2 Estate Stage 10 – Earthworks**

**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 19<sup>th</sup> of January 2017 to the 16<sup>th</sup> of March 2017 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 (See Appendix A).

(1). Standard Faceplan Layout Drawing No. 10R2 Version H.

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

### **Site Preparation**

Site inspections were undertaken on the 19<sup>th</sup> of January 2017 confirming that areas to be filled were completely stripped of topsoil prior to filling. The brown silty topsoils had been stockpiled around the site for later removal off-site.

Proof roll inspections were performed throughout the project duration to ensure no soft areas were present prior to filling.

### **Material**

It is understood that the fill material used was sourced from on-site, primarily from road boxing and service trench excavations. Additional material was also sourced from nearby Armstrong and Zeally Sands Estates.

The fill material is best described as a **CLAY, slightly silty, brown, orange-brown, slightly moist to moist, with fine to course grained sand and occasional gravels.**

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

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

### **Compaction of Fill Material**

A sheepsfoot compactor placed the material in horizontal loose layers of approximately 250mm–300mm. The sheepsfoot compactor also performed compaction of the fill material using a criss cross pattern where possible.

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). Moisture conditioning was carried out using a water cart and mixing with the grader prior to rolling.

### **Compaction 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 eighteen compaction tests were performed on the constructed allotment fill. Results are presented in Appendix A of this report.

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 hif density ratio not less than 95 percent of the maximum hif density value as determined by the Standard Hif Rapid Compaction Method in accordance with AS 1289 5.7.1.

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

No moisture criteria was specified.

### **Remarks**

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 20<sup>th</sup> of January 2017 to the 16<sup>th</sup> of March 2017 can be categorised as CONTROLLED FILL in accordance with AS 2870-2011.

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

Yours Faithfully,  
GEOTECHNICAL LABORATORIES.



Sam Loza.  
Laboratory Manager.

DRAPERS CIVIL  
CONTRACTING PTY LTD

THE QUAY 2 ESTATE  
STAGE 10

1505-1535 SURF COAST HWY  
TORQUAY

*Report On*

LEVEL 1  
SURVEILLANCE  
& COMPACTION CONTROL  
OF EARTHWORKS

*Carried Out  
By*



APPENDIX A





GEOTECHNICAL LABORATORIES  
 ACN 102 571 077  
 Factory 1/8-10 Catalina Drive, Tullamarine Vic 3043  
 PO Box 184 Keilor Vic 3036  
 PH: (03) 9335 1225 Fax: (03) 9335 1775

## DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 1916/047

LOCATION: DRAPERS - Quay Estate Torquay

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m <sup>3</sup> )	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m <sup>3</sup> )	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)
20/01/17	1	<i>Refer to #1916/048 for approx. test site locations.</i>	2.06	19.0	100.0	2.06	18.5	175	0.5 Wetter	102.5	0	0	400
20/01/17	2		1.99	19.0	99.5	2.00	18.5	175	0.0 Wetter	101.5	0	0	400
20/01/17	3		2.06	18.0	99.5	2.06	18.0	175	0.0 Drier	100.0	0	0	200
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Onsite Sandy Clay Fill  
 Test sites located - Geolab Procedure 4, Part 4.3.  
 Compaction specimens sampled after compaction.  
 Start Time: 11.35am 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.

Soil Layer thickness: 200mm

Hilf Density Ratio and Hilf Moisture Variation (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  
 SAM LOZA (Approved Signatory)  
 Issue Date: 16/2/2017







**GEOTECHNICAL  
LABORATORIES**

**GEOTECHNICAL LABORATORIES**  
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PH: (03) 9335 1225 Fax: (03) 9335 1775

**CLIENT: DRAPERS**

**DATE: 20/01/17**

**JOB No.: 1916/048**

**LOCATION: The Quay 2 Estate Stage 10**

**OPERATOR: BE**

**CHECKED: CA**

**Sketch indicating approx. compaction test locations**

**SCALE: NTS**

**FIGURE No: -**





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**DAILY SUMMARY - FIELD DENSITY TESTS**

REPORT NO.: # 1916/049

LOCATION: DRAPERS - Quay Estate 2 Stage 10

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m <sup>3</sup> )	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m <sup>3</sup> )	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)
24/01/17	1	<i>Refer to #1916/050 for approx. test site locations.</i>	1.99	16.5	102.0	1.95	19.0	175	2.5 Drier	87.5	0	0	0
24/01/17	2		1.91	15.5	95.0	2.01	17.0	175	1.5 Drier	90.5	0	0	0
24/01/17	3		1.94	11.5	95.5	2.03	14.0	175	2.5 Drier	82.5	0	0	0
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Onsite Clay Fill  
 Test sites located - Geolab Procedure 4, Part 4.4.  
 Compaction specimens sampled after compaction.  
 Start Time: 1:15pm Finish Time: 1:39pm

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.

Soil Layer thickness: 200mm

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

Field Density, Nuclear Gauge: AS 1289 5.8.1

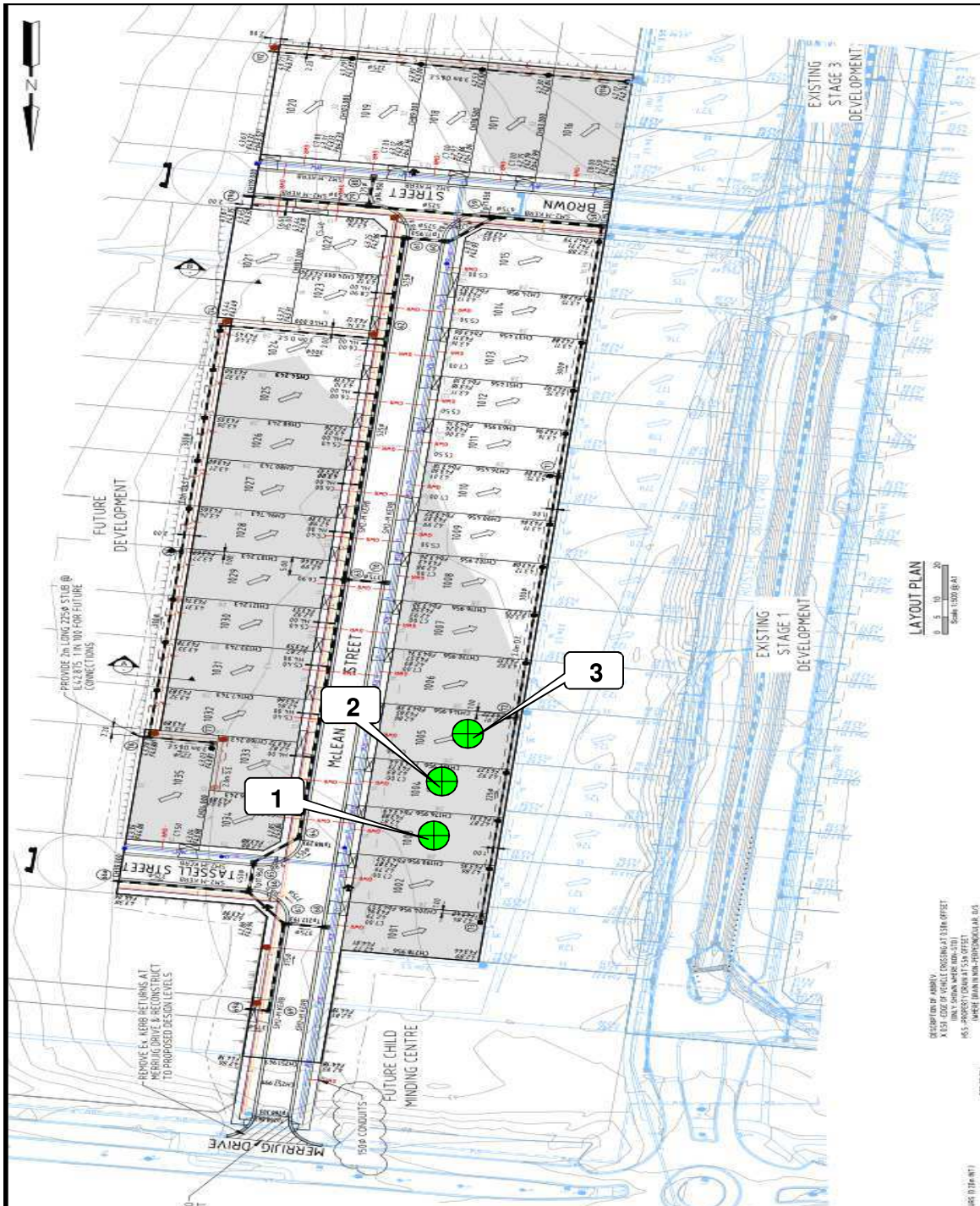
Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)

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**NATA** ACCREDITED FOR TECHNICAL COMPETENCE

NATA Accredited Laboratory Number 14561

SAM LOZA (Approved Signatory)  
 Issue Date: 20/2/2017



**GEOTECHNICAL  
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 PO Box 184 Keilor VIC 3036  
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**CLIENT: DRAPERS**

**DATE: 24/01/17**

**JOB No.: 1916/050**

**LOCATION: The Quay 2 Estate Stage 10**

**OPERATOR: BE**

**CHECKED: CA**

**Sketch indicating approx. compaction test locations**

**SCALE: NTS**

**FIGURE No: -**



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**DAILY SUMMARY - FIELD DENSITY TESTS**

REPORT NO.: # 1916/051  
 LOCATION: DRAPERS - Quay Estate 2 Stage 10

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m <sup>3</sup> )	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m <sup>3</sup> )	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)
25/01/17	1	<i>Refer to #1916/052 for approx. test site locations.</i>	1.96	16.0	100.0	1.96	17.5	175	1.5 Drier	92.0	0	0	400
25/01/17	2		1.90	19.0	97.0	1.95	21.0	175	1.5 Drier	92.0	0	0	0
25/01/17	3		2.11	12.0	102.0	2.07	14.0	175	2.0 Drier	87.0	0	0	0
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Onsite Clay Fill  
 Test sites located - Geolab Procedure 4, Part 4.4.  
 Start Time: 11:22am Finish Time: 11:46am  
 Comaction specimens sampled after compaction.

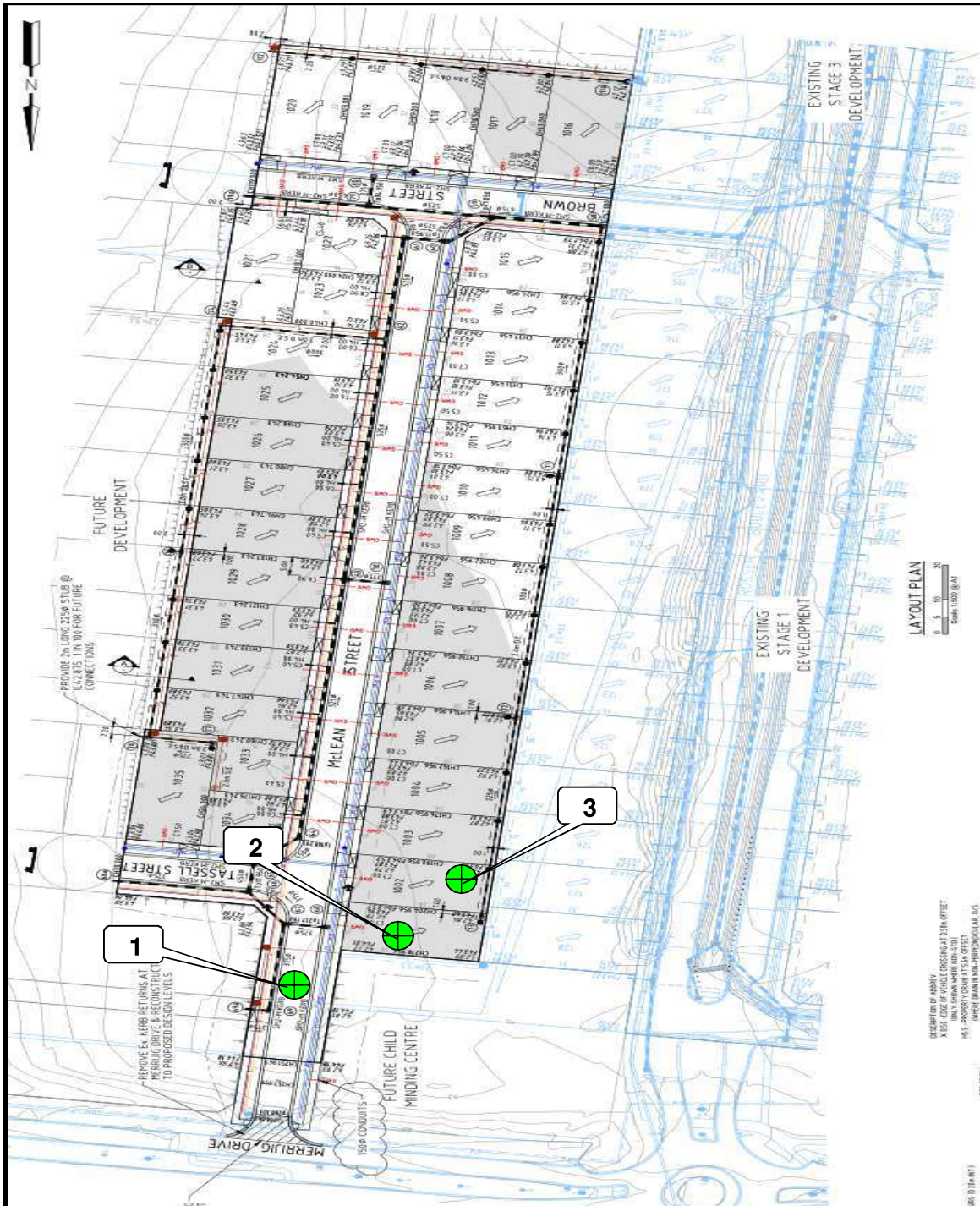
A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report.

Soil Layer thickness: 200mm  
 Hilf Density Ratio and Hilf Moisture Variation (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1  
 Moisture Content: AS 1289 2.1.1  
 Compaction Test: 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  
 SAM LOZA (Approved Signatory)  
 Issue Date: 20/2/2017







**GEOTECHNICAL  
LABORATORIES**

**GEOTECHNICAL LABORATORIES**  
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PO Box 184 Keilor VIC 3036  
PH: (03) 9335 1225 Fax: (03) 9335 1775

**CLIENT: DRAPERS**

**DATE: 25/01/17**

**JOB No.: 1916/052**

**LOCATION: The Quay 2 Estate Stage 10**

**OPERATOR: BE**

**CHECKED: CA**

**Sketch indicating approx. compaction test locations**

**SCALE: NTS**

**FIGURE No: -**



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## DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 1916/053  
 LOCATION: DRAPERS - Quay 2 Estate Stage 10

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m <sup>3</sup> )	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m <sup>3</sup> )	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)	
1/02/17	1	<i>Refer to #1916/054 for approx. test site locations.</i>	1.96	15.0	97.5	2.01	17.0	175	2.0	Drier	89.0	0	0	0
1/02/17	2		1.89	24.0	103.5	1.82	26.5	175	2.5	Drier	90.5	0	0	0
1/02/17	3		1.98	19.0	98.0	2.03	19.0	175	0.0	Wetter	101.5	0	0	0
-	-		-	-	-	-	-	-	-	-	-	-	-	
-	-		-	-	-	-	-	-	-	-	-	-	-	
-	-		-	-	-	-	-	-	-	-	-	-	-	

NOTES: Onsite Clay Fill  
 Test sites located - Geolab Procedure 4, Part 4.4.  
 Start Time: 11:45am Finish Time: 12:15pm  
 Compaction specimens sampled after compaction.

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.

Soil Layer thickness: 200mm  
 Moisture Content: AS 1289 2.1.1  
 Compaction Test: AS 1289 5.7.1

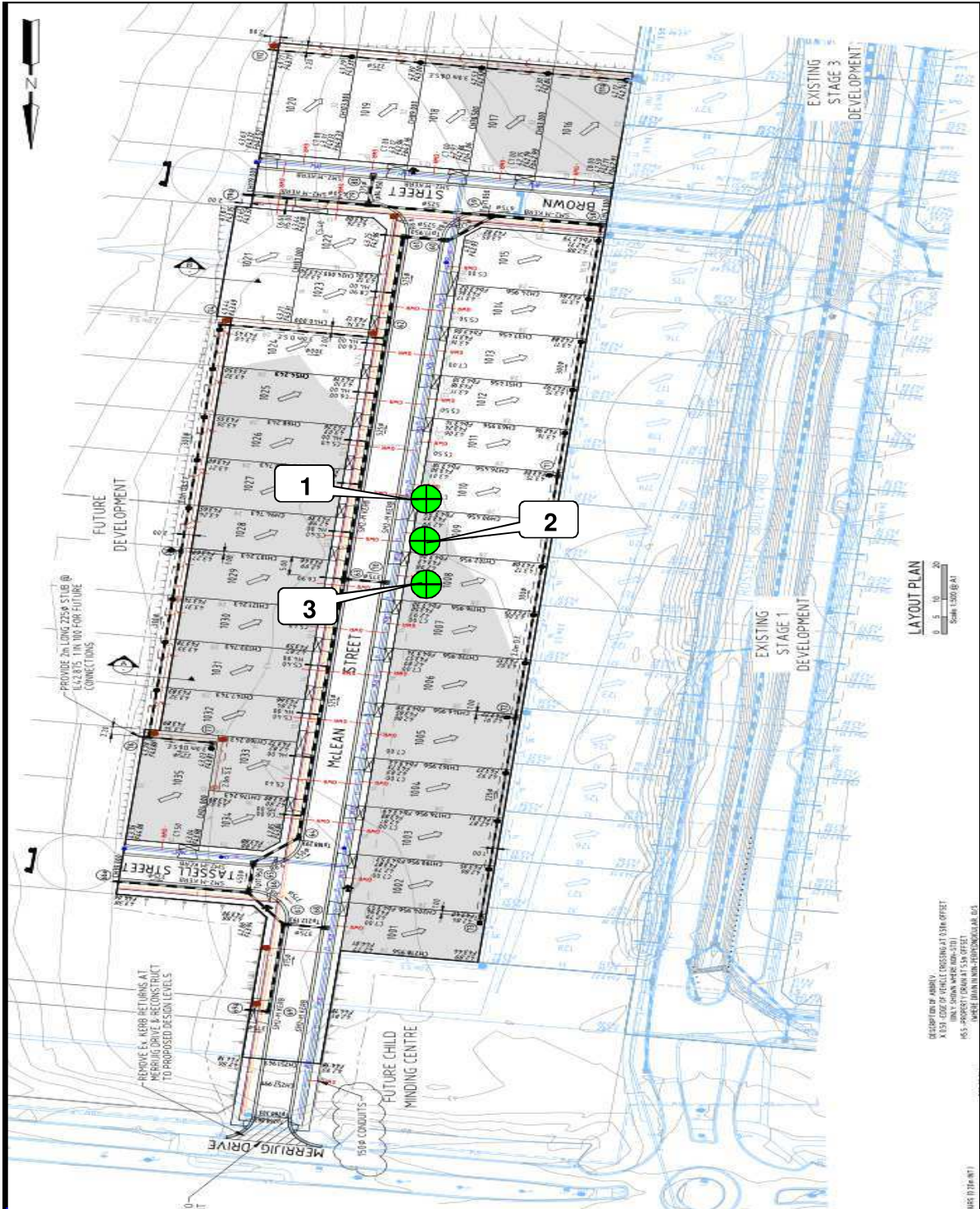
Hilf Density Ratio and Hilf Moisture Variation, Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1  
 Field Density, Nuclear Gauge: AS 1289 5.8.1  
 Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)

SAM LOZA  
 (Approved Signatory)  
 Issue Date: 21/2/2017



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<b>CLIENT:</b> DRAPERS  <b>LOCATION:</b> The Quay 2 Estate Stage 10  Sketch indicating approx. compaction test locations	<b>DATE:</b> 1/02/17	<b>JOB No.:</b> 1916/054
	<b>OPERATOR:</b> DR	<b>CHECKED:</b> CA
	<b>SCALE:</b> NTS	<b>FIGURE No.:</b> -





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 PO Box 2693 Gladstone Park Vic 3043  
 PH: (03) 9335 1225

## DAILY SUMMARY - FIELD DENSITY TESTS

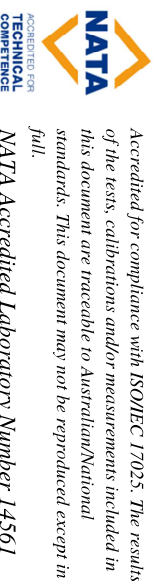
REPORT NO.: # 1916/073  
 LOCATION: DRAPERS - Quay 2 Estate Stage 10

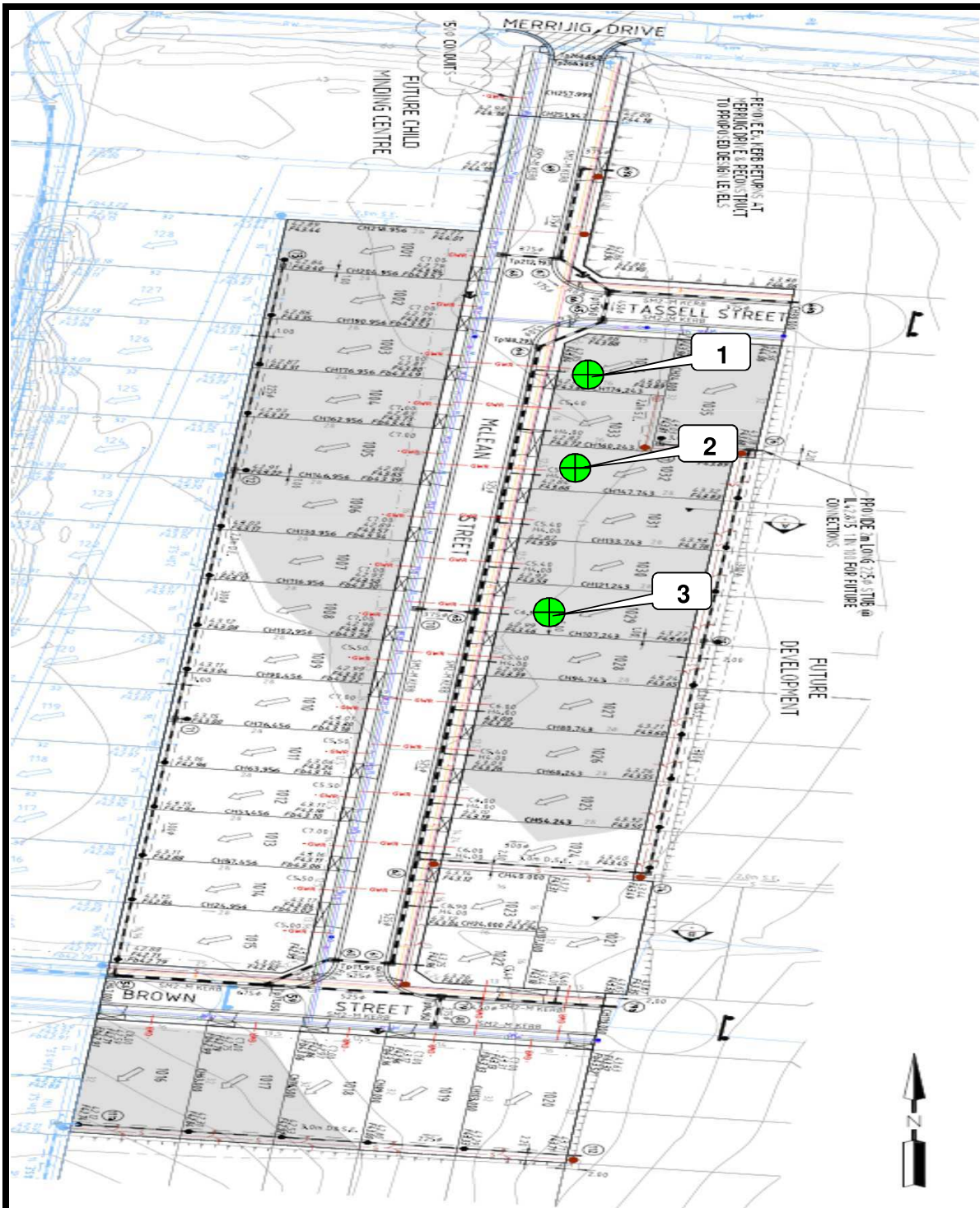
DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m <sup>3</sup> )	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m <sup>3</sup> )	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)
10/03/17	1	<i>Refer to #1916/074 for approx. test site locations.</i>	1.90	25.0	98.5	1.93	25.5	175	0.5 Drier	98.0	0	0	800
10/03/17	2		1.93	16.5	99.0	1.95	19.5	175	3.0 Drier	85.5	0	0	600
10/03/17	3		1.87	24.0	99.0	1.89	27.0	175	2.5 Drier	90.0	0	0	200
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-

NOTES: Onsite Clay Fill  
 Test sites located - Geolab Procedure 4, Part 4.4.  
 Start Time: 10:40am Finish Time: 11:02am  
 Compaction specimens sampled after compaction.

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.  
 Soil Layer thickness: 200mm  
 Moisture Content: AS 1289 2.1.1  
 Compaction Test: AS 1289 5.7.1  
 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)

SAM LOZA  
 (Approved Signatory)  
 Issue Date: 11/4/2017





**GEOTECHNICAL LABORATORIES**

GEOTECHNICAL LABORATORIES  
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 Factory 1/8-10 Catalina Drive, Tullamarine Vic 3043  
 PO Box 184 Keilor VIC 3036  
 PH: (03) 9335 1225 Fax: (03) 9335 1775

<b>CLIENT:</b> DRAPERS  <b>LOCATION:</b> The Quay 2 Estate Stage 10  Sketch indicating approx. compaction test locations	<b>DATE:</b> 10/03/17	<b>JOB No.:</b> 1916/074
	<b>OPERATOR:</b> BE	<b>CHECKED:</b> BE
	<b>SCALE:</b> NTS	<b>FIGURE No.:</b> -



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 PO Box 2693 Gladstone Park Vic 3043  
 PH: (03) 9335 1225

## DAILY SUMMARY - FIELD DENSITY TESTS

REPORT NO.: # 1916/077  
 LOCATION: DRAPERS - Quay2 Estate Stage 10

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m <sup>3</sup> )	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m <sup>3</sup> )	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)	
16/03/17	1	<i>Refer to #1916/078 for approx. test site locations.</i>	1.85	24.0	98.0	* 1.89	30.5	175	6.0	Drier	79.5	9	0	400
16/03/17	2		1.85	23.5	100.5	1.84	27.5	175	4.0	Drier	85.5	0	0	200
16/03/17	3		1.89	21.0	101.0	1.87	25.0	175	4.5	Drier	82.5	0	0	0
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTES: Onsite Clay Fill  
 Test sites located - Geolab Procedure 4, Part 4.4.  
 Start Time: 12:10pm Finish Time: 12:34pm  
 Compaction specimens sampled after compaction.

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.


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

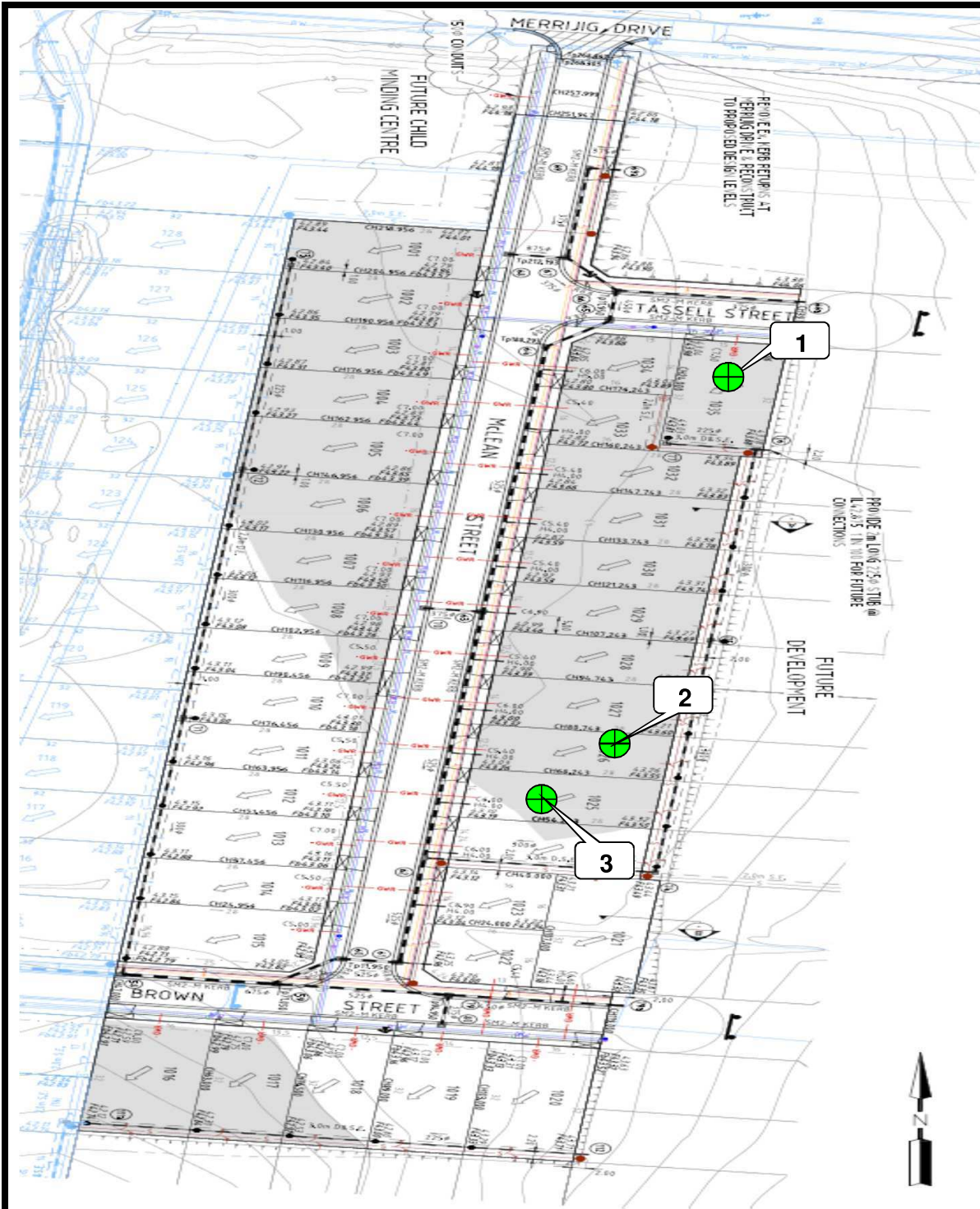
Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)

\* Indicates APCWD


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 NATA Accredited Laboratory Number 14561

SAM LOZA  
 (Approved Signatory)  
 Issue Date: 19/4/2017





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 ACN 102 571 077  
 Factory 1/8-10 Catalina Drive, Tullamarine Vic 3043  
 PO Box 184 Keilor VIC 3036  
 PH: (03) 9335 1225 Fax: (03) 9335 1775

CLIENT: DRAPERS	DATE: 16/03/17	JOB No.: 1916/078
LOCATION: The Quay 2 Estate Stage 10	OPERATOR: JC	CHECKED: JC
Sketch indicating approx. compaction test locations	SCALE: NTS	FIGURE No: -