DRAPERS CIVIL CONTRACTING PTY LTD

THE QUAY 2 ESTATE STAGE 1

1505-1535 SURF COAST HWY TORQUAY

Report On

LEVEL 1 SURVEILLANCE & COMPACTION CONTROL OF EARTHWORKS

Carried Out By



Project No.: 1917/038



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

19th October 2017 Project No.:1917/038

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

Dear Sir,

RE: The Quay 2 Estate Stage 1 – 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 10th of January 2017 to the 8th of March 2017 where a commercial 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. IR2 Version E.

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 10th 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.

<u>Material</u>

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

The material is best described as a CLAY fill, slightly silty, brown, orangebrown, 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 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.

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 11th of January 2017 to the 8th 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 1

1505-1535 SURF COAST HWY TORQUAY

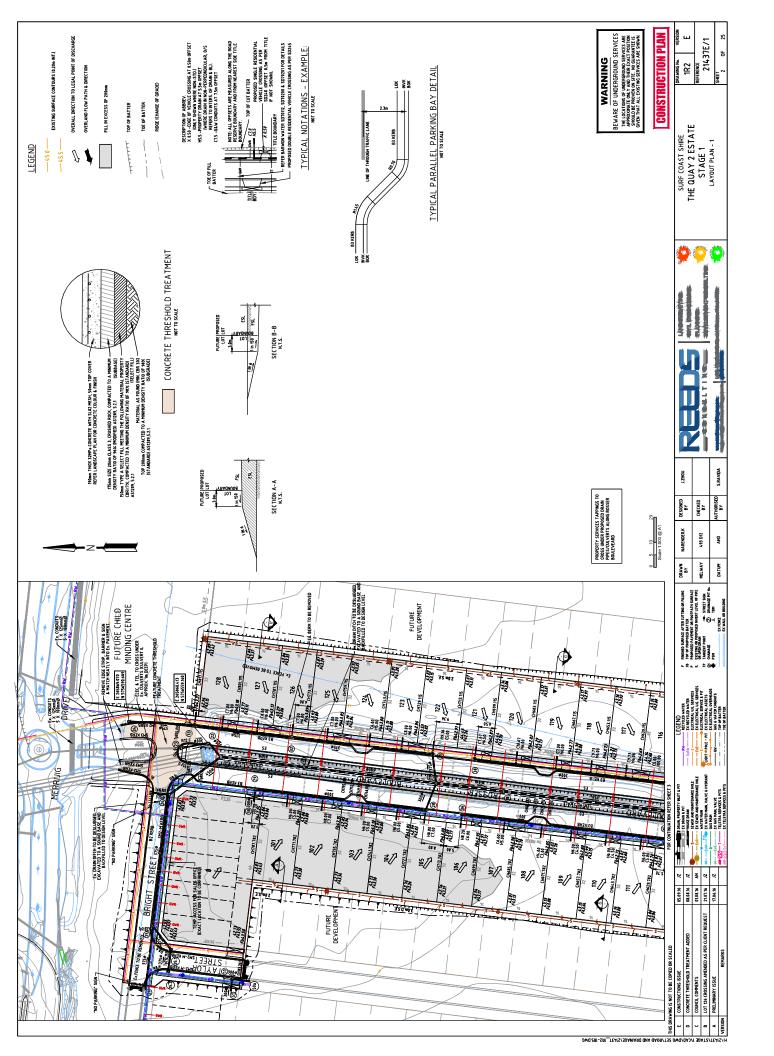
Report On

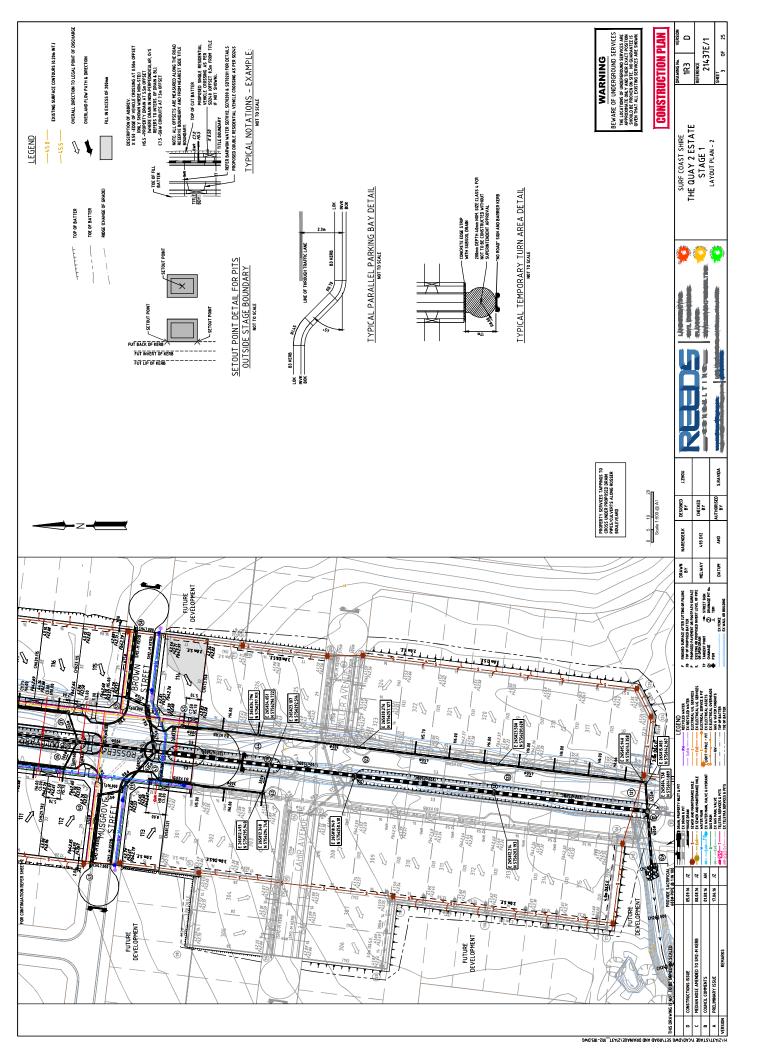
LEVEL 1 SURVEILLANCE & COMPACTION CONTROL OF EARTHWORKS

Carried Out
By



APPENDIX A







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

REPORT NO.: # 1916/033

DRAPERS - The Quay 2 Estate Stage 1 LOCATION:

| DATE OF TESTS | TEST NUM. | TEST LOCATION | FIELD WET DENSITY (t/m³) | FIELD MOISTURE CONTENT (%) | HILF DENSITY RATIO STANDARD (%) | STANDARD PCWD OR APCWD (t/m³) | 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) |
|---------------------|--------------|--|-----------------------------------|-------------------------------------|---|---|---|-----------------------------------|--|--------------------------|---------------------|-----------------------|---|
| 16/01/17 | - | | 2.02 | 9.0 | 0.66 | 2.04 | 11.0 | 175 | 2.5 Drier | 78.5 | 0 | 0 | 0 |
| 16/01/17 | 2 | | 2.01 | 8.5 | 95.0 | 2.12 | 10.5 | 175 | 1.5 Drier | 83.0 | 0 | 0 | 0 |
| 16/01/17 | 3 | Refer to #1916/034 for | 2.03 | 8.5 | 0.66 | 2.05 | 11.5 | 175 | 3.0 Drier | 75.5 | 0 | 0 | 0 |
| - | 1 | approx. test sue locations. | I | - | - | - | ı | 1 | I | ı | - | ı | ı |
| - | 1 | | ı | - | ı | - | 1 | ı | I | ı | - | ı | ı |
| ı | 1 | | 1 | 1 | I | - | 1 | ı | ı | I | ı | ı | 1 |
| NOTES: | Onsit | NOTES: Onsite Sandy Clay Fill | | | | Compaction | Compaction specimens sampled after compaction | s samplec | after com | paction. | | | |
| | Test s | Test sites located - Geolab Procedure 4, Part 4.4. | ⁵ art 4.4 | | | Start Time: 12:46pm | 12:46pm | Finish T | Finish Time: 1:18pm | m | | | |
| | | | | | | | | | | | | | |

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 Hilf Density Ratio and Hilf Moisture Variation , Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1 Accredited for compliance with ISO/IEC 17025. The results of the tests, calibrations and/or measurements included in standards. This document may not be reproduced except in this document are traceable to Australian/National NATA

NATA Accredited Laboratory Number 14561

TECHNICAL

SAM LOZA

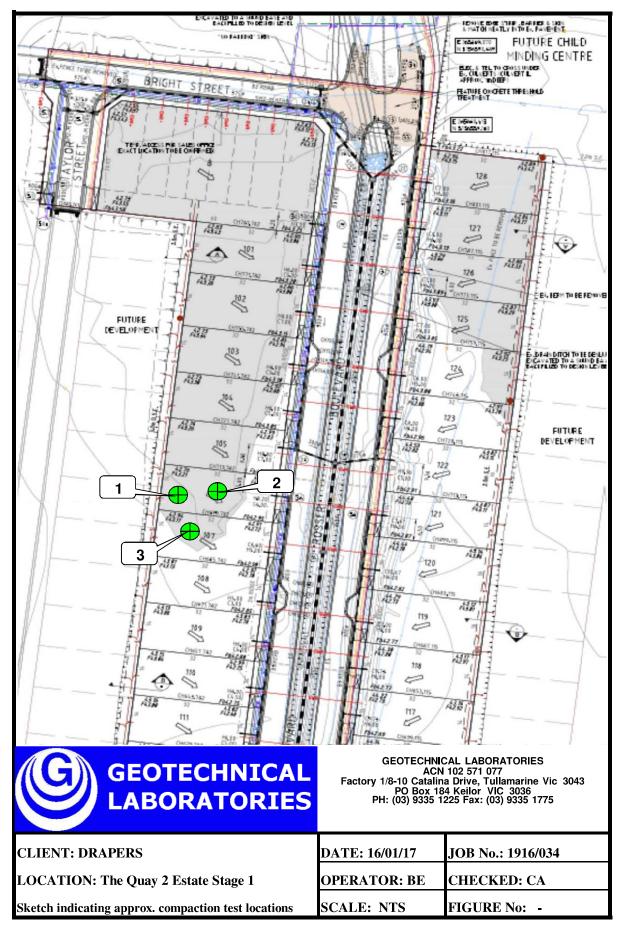
(Approved Signatory)

Issue Date: 15/2/2017

Materials Sampled: AS 1289 1.2.1 Clause 6.4(b) Field Density, Nuclear Gauge: AS 1289 5.8.1

Soil Layer thickness: 200mm

Rev: 12 SS3092-1 July 2016





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REPORT NO.: # 1916/035

DRAPERS - The Quay 2 Estate Stage 1 LOCATION:

| | | | | | | | | | | | | I | |
|-------------------------|--------------|--|-----------------------------------|-------------------------------------|---|---|---|-----------------------------------|--|--------------------------|---------------------|-----------------------|---|
| DATE OF TESTS | TEST NUM. | TEST LOCATION | FIELD WET DENSITY (t/m³) | FIELD MOISTURE CONTENT (%) | HILF DENSITY RATIO STANDARD (%) | STANDARD PCWD OR APCWD (t/m³) | 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) |
| 11/01/17 | 1 | | 1.99 | 23.5 | 104.5 | 1.91 | 26.5 | 175 | 3.0 Drier | 89.0 | 0 | 0 | 0 |
| 11/01/17 | 2 | | 1.93 | 24.0 | 100.0 | 1.93 | 27.0 | 175 | 3.0 Drier | 89.0 | 0 | 0 | 0 |
| 11/01/17 | 3 | Refer to #1916/036 for | 2.00 | 15.5 | 102.5 | 1.95 | 18.0 | 175 | 2.5 Drier | 87.0 | 0 | 0 | 0 |
| ı | I | approx. test sue locations. | I | - | ı | - | ı | - | I | - | ı | - | ı |
| ı | I | | ı | - | ı | - | ı | 1 | ı | ı | - | ı | I |
| 1 | 1 | | ı | 1 | - | - | 1 | | ı | - | I | 1 | ı |
| NOTES: Onsite Clay Fill | Onsiț | e Clay Fill | | | | Compaction | Compaction specimens sampled after compaction. | s sampled | d after com | oaction. | | | |
| | Test s | Test sites located - Geolab Procedure 4, Part 4.4. | art 4.4. | | | Start Time: 2:36pm | 2:36pm | Finish Tir | Finish Time: 2:59pm | | | | |
| | (| | | | : i | () : : : : : : : : : : : : : : : : : : | | · | | | | | |

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

Hilf Density Ratio and Hilf Moisture Variation , Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1 Accredited for compliance with ISO/IEC 17025. The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/National NATA Field Density, Nuclear Gauge: AS 1289 5.8.1

Materials Sampled: AS 1289 1.2.1 Clause 6.4(b)

Soil Layer thickness: 200mm

TECHNICAL

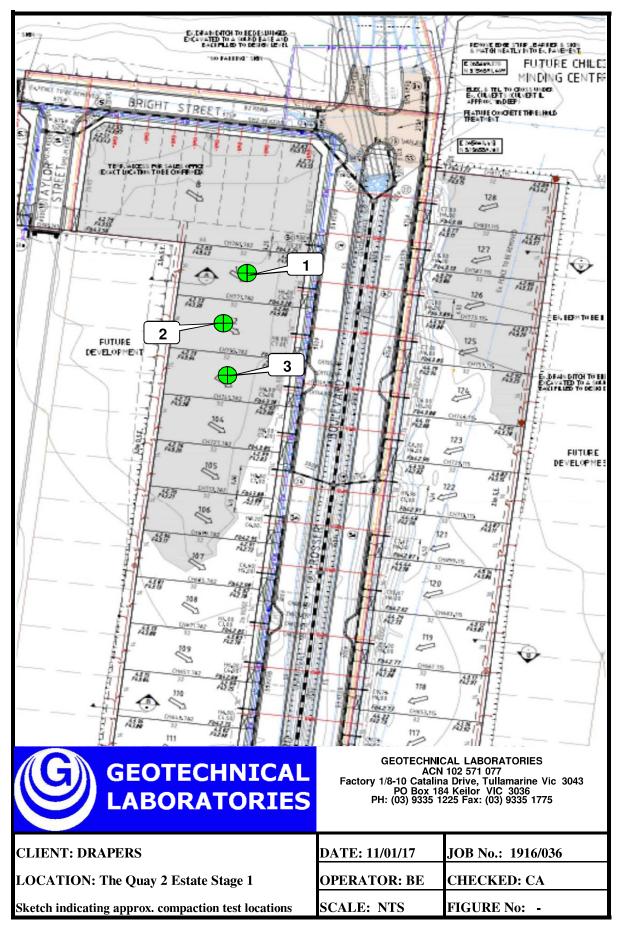
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(Approved Signatory)

Issue Date: 10/2/2017





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REPORT NO.: # 1916/039

DRAPERS - The Quay 2 Estate Stage 1 LOCATION:

| DATE OF TESTS | TEST NUM. | TEST LOCATION | FIELD WET DENSITY (t/m³) | FIELD MOISTURE CONTENT (%) | HILF DENSITY RATIO STANDARD (%) | STANDARD PCWD OR APCWD (t/m³) | 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) |
|---------------------|--------------|---|-----------------------------------|-------------------------------------|---|---|---|-----------------------------------|--|--------------------------|---------------------|-----------------------|---|
| 12/01/17 | - | | 1.86 | 22.0 | 95.5 | 1.94 | 24.0 | 175 | 2.0 Drier | ır 91.0 | 0 | 0 | 0 |
| 12/01/17 | 7 | | 1.97 | 20.0 | 104.0 | 1.90 | 21.0 | 175 | 0.5 Drier | r 96.5 | 0 | 0 | 0 |
| 12/01/17 | က | Refer to #1916/040 for | 1.98 | 16.0 | 104.0 | 1.90 | 19.0 | 175 | 3.0 Drier | r 85.5 | 0 | 0 | 0 |
| 1 | ı | approx. test sue locations. | ı | ı | ı | I | 1 | 1 | I | ı | ı | ı | 1 |
| 1 | ı | | 1 | - | ı | ı | ı | ı | I | ı | - | ı | ı |
| ı | ı | | - | ı | ı | ı | I | ı | - | ı | ı | 1 | 1 |
| NOTES: | Onsit | NOTES: Onsite Clay Fill Test sites located - Geolab Procedure 4 Part 4.4. |)art 4.4. | | | Compaction specime Start Time: 11:10am | Compaction specimens sampled after compaction. Start Time: 11:10am Finish Time: 11:35am | s sampled Finish Ti | sampled after compac Finish Time: 11:35am | npaction. | | | |
| | | | | | | | | | | | | | |

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

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

Soil Layer thickness: 200mm

Materials Sampled: AS 1289 1.2.1 Clause 6.4(b)

NATA TECHNICAL

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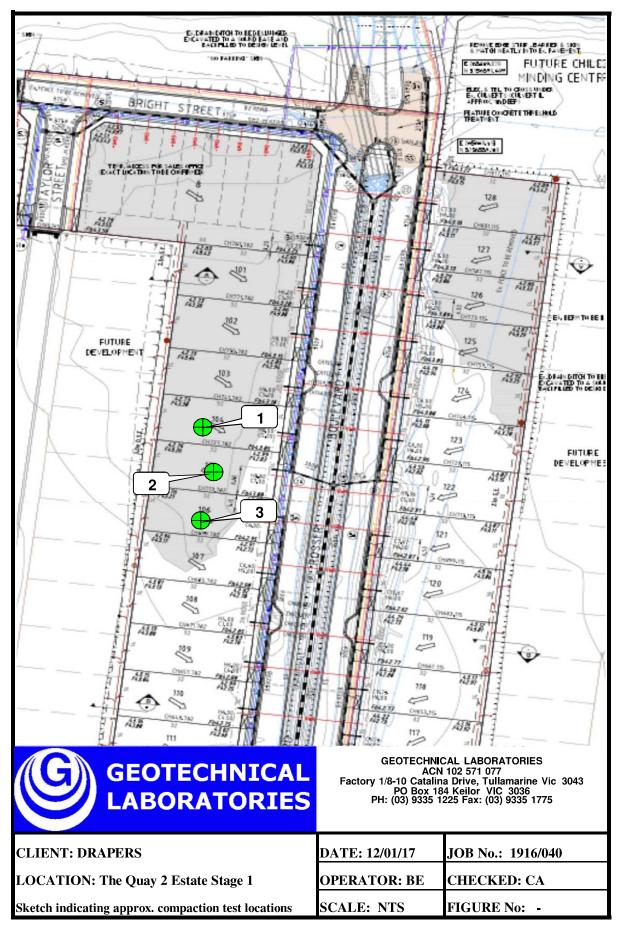
NATA Accredited Laboratory Number 14561

SAM LOZA

(Approved Signatory)

Issue Date: 14/2/2017

Rev: 12 SS3092-1 July 2016





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REPORT NO.: # 1916/069

LOCATION: DRAPERS - The Quay Estate 2 Stage 1

| DATE OF TESTS | TEST NUM. | TEST LOCATION | FIELD WET DENSITY (t/m³) | FIELD MOISTURE CONTENT (%) | HILF DENSITY RATIO STANDARD (%) | STANDARD PCWD OR APCWD (t/m³) | 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) |
|---------------------|--------------|--|-----------------------------------|-------------------------------------|---|---|---|-----------------------------------|--|--------------------------|---------------------|-----------------------|---|
| 6/03/17 | 1 | | 1.89 | 19.0 | 0.36 | 1.99 | 21.5 | 175 | 2.5 Drier | 88.0 | 0 | 0 | 0 |
| 6/03/17 | 2 | | 1.90 | 23.0 | 0.66 | 1.92 | 26.5 | 175 | 3.5 Drier | 87.0 | 0 | 0 | 0 |
| 6/03/17 | က | Refer to #1916/070 for | 1.91 | 24.0 | 97.5 | 1.97 | 24.5 | 175 | 0.5 Drier | 98.0 | 0 | 0 | 0 |
| ı | ı | approx. test sue locations. | - | ı | - | ı | ı | - | ı | ı | I | I | ı |
| ı | ı | | ı | ı | - | ı | ı | 1 | ı | ı | ı | I | ı |
| 1 | 1 | | ı | ı | - | 1 | ı | 1 | 1 | 1 | ı | ı | ı |
| NOTES: | Onsit | NOTES: Onsite Clay Fill | | | | Compaction | Compaction specimens sampled after compaction. | s sampled | after com | paction. | | | |
| | Test s | Test sites located - Geolab Procedure 4, Part 4.4. | Part 4.4. | | | Start Time: 9:45am | | Finish Tir | Finish Time: 10:00am | ш | | | |
| 1 | | | | | | | | | | | | | |

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

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

Soil Layer thickness: 200mm

Materials Sampled: AS 1289 1.2.1 Clause 6.4(b)

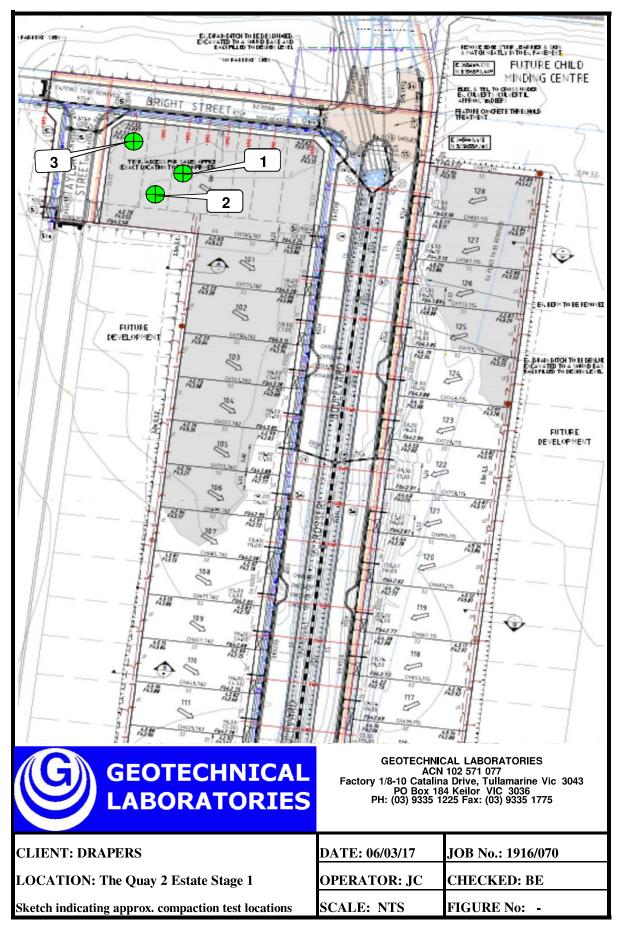
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MICK CROWE (Approved Signatory)

lssue Date: 29/3/2017





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REPORT NO.: # 1916/071

DRAPERS - Quay Estate 2 Stage 1 LOCATION:

| DATE OF TESTS | TEST NUM. | TEST LOCATION | FIELD WET DENSITY (t/m³) | FIELD MOISTURE CONTENT (%) | HILF DENSITY RATIO STANDARD (%) | STANDARD PCWD OR APCWD (I/m³) | 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) |
|-------------------------|--------------|--|-----------------------------------|-------------------------------------|---|---|---|-----------------------------------|--|--------------------------|---------------------|-----------------------|---|
| 2/03/17 | 1 | | 1.89 | 21.5 | 101.0 | 1.87 | 24.0 | 175 | 2.5 Drier | 0'68 | 0 | 0 | 400 |
| 2/03/17 | 8 | | 1.92 | 18.5 | 102.0 | 1.88 | 21.5 | 175 | 3.0 Drier | 86.5 | 0 | 0 | 200 |
| 2/03/17 | က | Refer to #1916/072 for | 1.90 | 24.0 | 95.5 | 1.99 | 24.0 | 175 | 0.0 Drier | 100.0 | 0 | 0 | 200 |
| ı | 1 | approx. test sue locations. | I | ı | I | I | ı | 1 | ı | ı | ı | - | 1 |
| 1 | ı | | - | - | ı | Ι | - | - | ı | ı | I | - | 1 |
| ı | ı | | - | - | - | ı | - | ı | ı | ı | I | ı | 1 |
| NOTES: Onsite Clay Fill | Onsite | e Clay Fill | | | | Compaction | Compaction specimens sampled after compaction | s sampled | after com | paction. | | | |
| | Test s | Test sites located - Geolab Procedure 4, Part 4.4. | Part 4.4. | | | Start Time: 12:14pm | 12:14pm | Finish T | Finish Time: 12:32pm | om | | | |

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

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

Soil Layer thickness: 200mm

Materials Sampled: AS 1289 1.2.1 Clause 6.4(b)

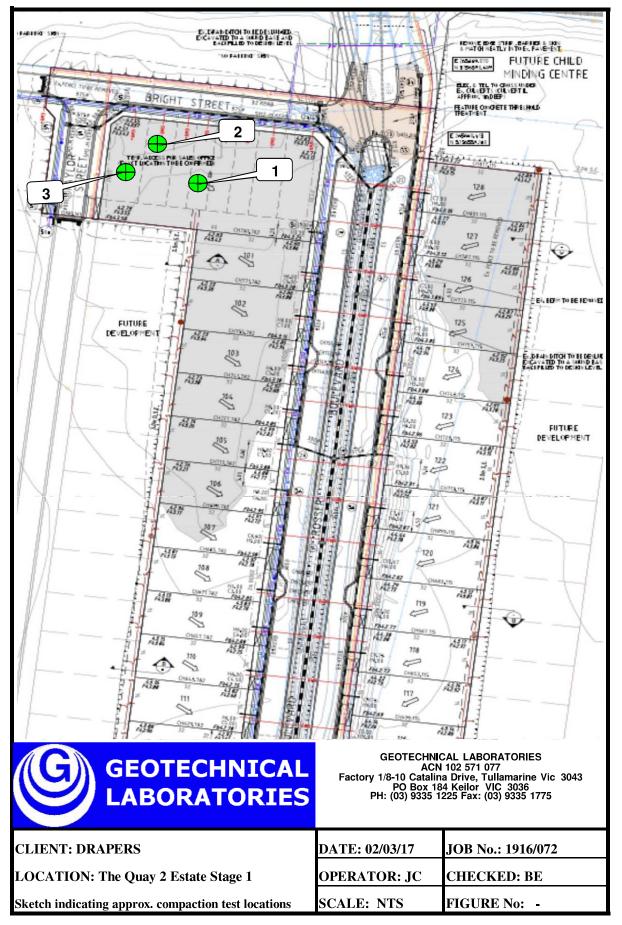
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(Approved Signatory) MICK CROWE

Issue Date: 28/3/2017

Rev: 12 SS3092-1 July 2016





REPORT NO.: # 1916/085

DRAPERS - Quay 2 Estate Stage 1 LOCATION:

| DATE OF TESTS | TEST NUM. | TEST LOCATION | FIELD WET DENSITY (t/m³) | FIELD MOISTURE CONTENT (%) | HILF DENSITY RATIO STANDARD (%) | STANDARD PCWD OR APCWD (t/m³) | 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) |
|---------------------|-----------------|--|-----------------------------------|-------------------------------------|---|--|---|-----------------------------------|--|--------------------------|---------------------|-----------------------|---|
| 8/03/17 | - | | 1.90 | 21.0 | 97.5 | 1.95 | 19.5 | 175 | 1.5 Wetter | 108.5 | 0 | 0 | 0 |
| 8/03/17 | 2 | | 1.90 | 20.5 | 0.96 | 1.97 | 20.5 | 175 | 0.0 Drier | 100.0 | 0 | 0 | 0 |
| 8/03/17 | в | Refer to #1916/086 for | 1.87 | 20.5 | 95.0 | 1.96 | 23.0 | 175 | 2.5 Drier | 88.5 | 0 | 0 | 0 |
| 1 | - | approx. test sue locations. | - | ı | ı | - | ı | - | ı | 1 | 1 | ı | ı |
| ı | ı | | ı | 1 | ı | ı | ı | ı | ı | ı | ı | 1 | ı |
| 1 | 1 | | ı | - | ı | 1 | ı | 1 | 1 | ı | ı | ı | ı |
| NOTES: | Onsit Test s | NOTES: Onsite Clay Fill Test sites located - Geolab Procedure 4, Part 4.4. | art 4.4. | | | Compaction specimer Start Time: 12:18pm | ~ | s samplec Finish Tir | s sampled after compa Finish Time: 12:36pm | oaction. n | | | |
| | | | | | | | ı | | - | | | | |

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

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

Soil Layer thickness: 200mm

Materials Sampled: AS 1289 1.2.1 Clause 6.4(b)

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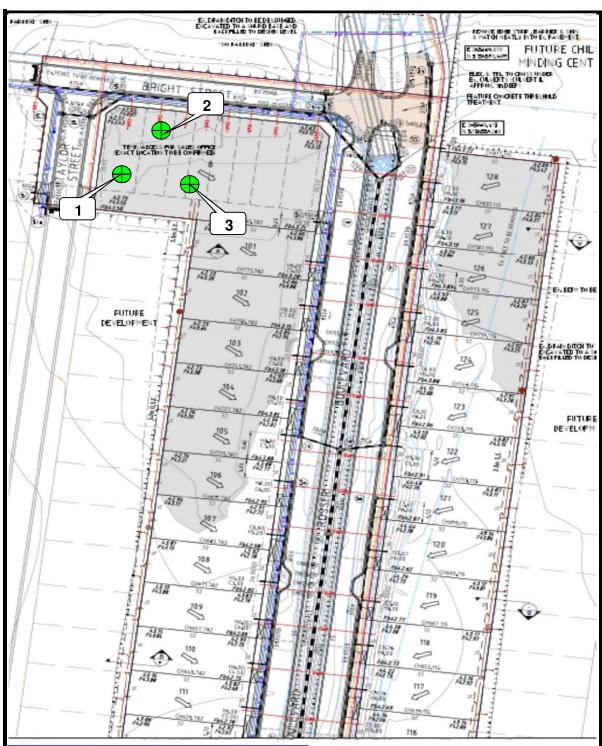
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(Approved Signatory)

Issue Date: 13/4/2017

Rev: 13 SS3092-1 April 2017





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CLIENT: DRAPERS DATE: 8/03/17 JOB No.: 1916/086 LOCATION: The Quay 2 Estate Stage 1 OPERATOR: JC CHECKED: JC Sketch indicating approx. compaction test locations SCALE: NTS FIGURE No: