

Level One Compliance Report

Bulk Earthworks Filling Operations

Residential Subdivision

Everleigh Estate - Precinct 9.3

July 11th, 2022

Prepared By

MORRISON GEOTECHNIC PTY LTD

Prepared for:

Shadforth's Civil Pty Ltd

Document Reference: 22087



**MORRISON
GEOTECHNIC**

Gold Coast Office
Job No: GL22/005
Ref No: 22087
Author: N. Dobson

11th July 2022

Shadforth Civil
99 Sandalwood Lane
Forest Glen Qld 4556

ATTENTION: MR CALLUM WATTS

Email: callum.watts@shadcivil.com.au

Dear Sir,

**RE: LEVEL ONE COMPLIANCE REPORT FOR BULK EARTHWORKS FILLING OPERATIONS,
EVERLEIGH ESTATE - PRECINCT 9.3, TEVIOT ROAD, GREENBANK**

Table of Contents

Table of Contents	1
1.0 INTRODUCTION	2
1.1 General	2
1.2 Previous Earthworks	5
1.3 The Project	6
2.0 THE BRIEF	6
2.1 Additional Requirements	6
3.0 METHODOLOGY	7
3.1 Stripped Surface Assessment	7
3.1.1 Filling Operations	8
4.0 STATEMENT OF COMPLIANCE	11
5.0 EXCLUSIONS	11
6.0 LIMITATIONS	11
ATTACHMENTS:	12
Appendix A – Site Plans Showing Test Locations	12
Appendix B – Laboratory Test Results Reports	12

1.0 INTRODUCTION

1.1 General

This report presents results of Level One Earthworks Inspections and associated compaction compliance testing carried out on earthworks fill constructed at Everleigh Estate – Precinct 9.3, Teviot Road, Greenbank.

Earthworks operations were carried out by Shadforth Civil.

Earthworks filling operations for Precinct 9.3 allotments and roads were carried out between 20th January and 10th June 2022.

The areas of fill covered by this report are presented as Figures 1, 2 and 3 below.

Figure 1 and Figure 2 present the extent of earthworks as shown on the Premise Earthworks Drawings MIR009-03-C200.1 and MIR009-03-C201.1.

Figure 3 presents the as constructed areas and actual areas of fill as shown on the Shadforth Civil Survey Plans.

Figure 1: Extent of Fill (Precinct 9.3) - Premise Earthwork Drawing MIR009-03-C200.1

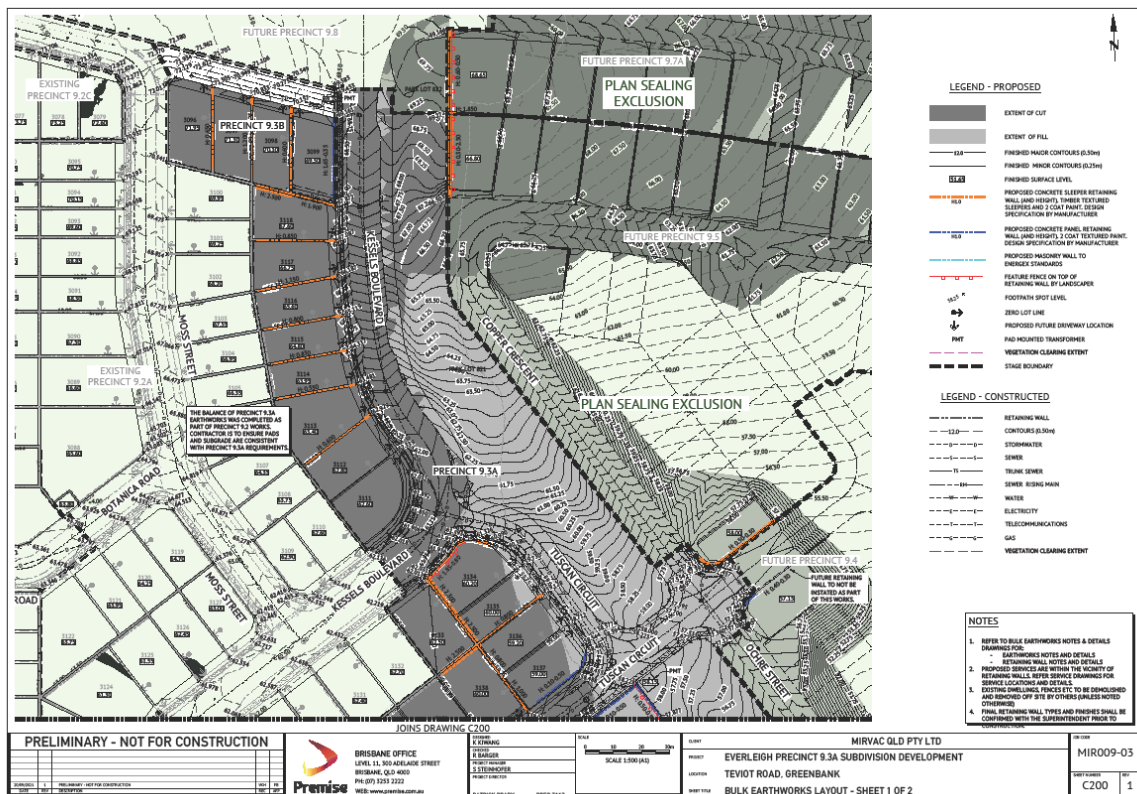


Figure 2: Extent of Fill (Precinct 9.3) - Premise Earthwork Drawing MIR009-03-C201.1

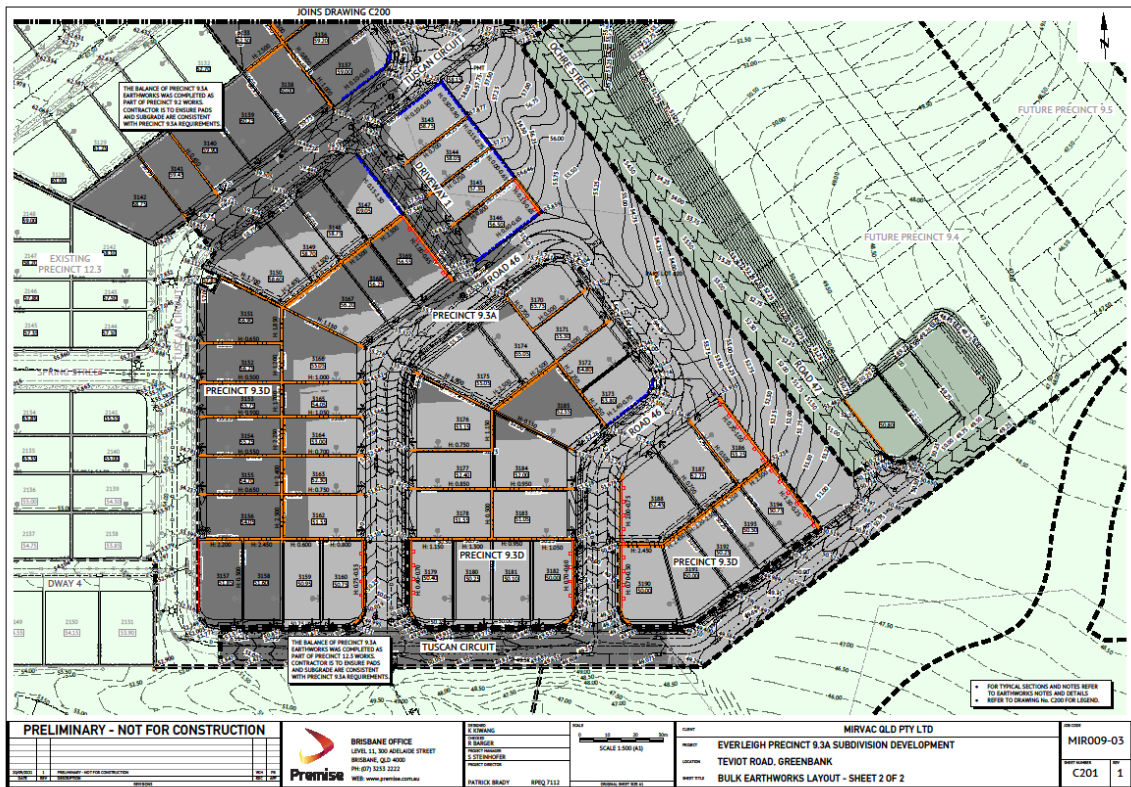
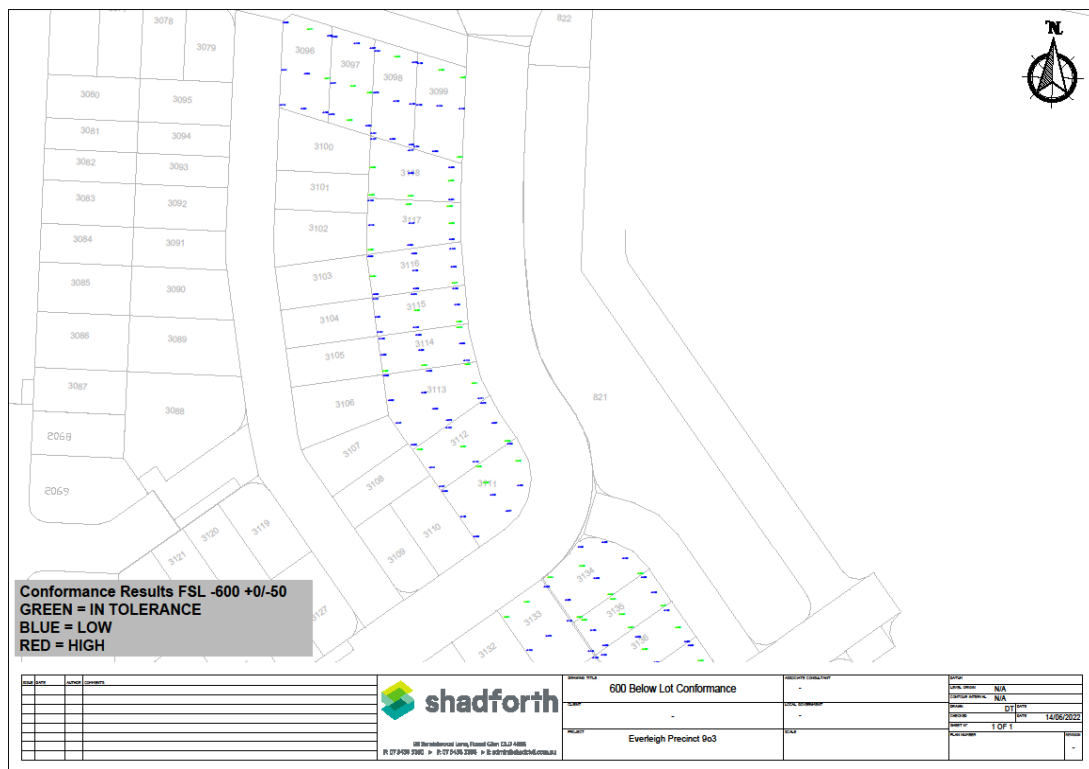


Figure 3: Actual Constructed Area of Fill – Shadforth Survey Plans



1.2 Previous Earthworks

As far as can be determined, there were no previous earthworks carried out at The Site.

1.3 The Project

The project includes filling operations to construct building platforms to support proposed residences, new pavements, and underground services. The Site is bounded by Existing Precincts to the south, existing developments to the west and future precincts to the north.

2.0 THE BRIEF

The Brief from the Client and relevant documents were limited to:

- Level One Inspection and Testing of the placement and compaction of fill materials in general accordance with AS3798 2007 – “Guidelines on Earthworks for Commercial and Residential Developments”.
- Relative Density Control Testing in accordance with AS1289 – Testing of Soils for Engineering Purposes and at frequencies required in AS3798 Table 8.1.
- Earthworks Notes on MIR009-03-C210.1 Drawings.
- Recommendations in Morrison Geotechnic report “recommended filling Earthworks specification” report 16520B, dated 25th June 2020.

2.1 Additional Requirements

All fill at The Site was to be constructed in accordance with the Earthworks Specification as shown on Premise Drawing – MIR009-01-C210 Rev A.

The earthworks specification is presented as Figure 4 below.

Figure 4 Earthworks Specification

EARTHWORKS SPECIFICATION

SPECIFICATION	DEPTH RANGE (m)				PAVEMENT SUBGRADE	TRENCH BACKFILL
	0.0 - 0.6	0.6 - 3.00	3.00 - 5.00	> 5.00		
CBR %	-	-	-	-	10	15
LAYER THICKNESS (mm)	300	300	300	300	BETWEEN SUBGRADE AND 0.3m BELOW	300
MAXIMUM PARTICLE SIZE (mm)	200	500	500	500	200	200
% PASSING 37.5mm	80% MIN	REFER NOTES AND KEY OUTCOMES	REFER NOTES AND KEY OUTCOMES	REFER NOTES AND KEY OUTCOMES	REFER NOTES AND KEY OUTCOMES	REFER NOTES AND KEY OUTCOMES
% PASSING 0.075mm	30% MIN	REFER NOTES	REFER NOTES	REFER NOTES	REFER NOTES	REFER NOTES AND AS3798
COMPACTION	95% STD	95% STD	95% STD	95% STD	100% STD	95% MOD IN ROADS AND 95% STD OUTSIDE ROADS
MOISTURE	+/- 2% OMC	+/- 2% OMC	+/- 2% OMC	+/- 2% OMC	60% - 90% OF OMC	+/- 2% OMC
<p>NOTES:</p> <ol style="list-style-type: none"> 1. OMC - OPTIMUM MOISTURE CONTENT 2. LAYER OF THICKNESS IS LIMITED TO 300mm TO ALLOW IDENTIFICATION OF LARGER PARTICLES AND ALLOW EVERY CHANCE OF BREAK DOWN IN FILLING OR REMOVAL. 3. TREATMENT OF ROCK TO SIZES ABOVE SHOULD BE CARRIED OUT IN CUT PRIOR TO LOADING TO FILL AREAS. TREATED ROCK TO BE APPROVED BY GITA PRIOR TO TRANSPORTING. 4. UPPER 0.6m, (PARTICULARLY IN AREAS OF DEEP FILL), OF THE FILL PROFILE TO BE RELATIVELY IMPERMEABLE HENCE INCREASE IN FINES COMPONENT. 5. PROOF ROLL TESTING ON EACH COMPACTED LAYER USING RUBBER WHEELED PLANT SUCH AS LOADED ADT'S OR LOADED SCRAPERS. UNFAVOURABLE DEFORMATION OF THE COMPACTED SURFACE UNDER LOAD OF ADT'S OR SCRAPERS WILL REQUIRE REPAIR PRIOR TO ADDITIONAL PLACEMENT. 6. MECHANICAL INTERLOCK METHODOLOGY IS NOT APPROPRIATE DUE TO POOR DURABILITY OF SITE WON SANDSTONE. FILL COMPOSITION IS REQUIRED TO INCLUDE AN APPROPRIATE SAND GRAVEL AND FINES COMPONENT CONFORMING TO THE REQUIREMENTS OF AS798. <p>KEY OUTCOMES FOR EARTHWORKS OPERATIONS</p> <ol style="list-style-type: none"> 1. DELIVER RESIDENTIAL LOTS WITH FAVOURABLE LOT CLASSIFICATIONS - I.E - NO P CLASSIFICATIONS 2. FILL THICKNESS DOES NOT VARY MORE THAN 2m OVER A DISTANCE OF 10m 3. CONSTRUCT FILL AND LIMIT LONG TERM CREEP SETTLEMENTS TO WITHIN 0.5% TO 1.0% OF THE FILL THICKNESS 4. BUILDING PLATFORM THAT ALLOWS BUILDERS TO CONSTRUCT SLAB ON GROUND RAFTS USING LIGHT EARTHMOVING EQUIPMENT 5. MATERIAL WON FROM CUTS AND USED IN FILL WITH REQUIRE <ul style="list-style-type: none"> • CUTS IN ROCK AS WELL AS BLENDED WITH • CUTS IN FINER MATERIALS SUCH AS SANDS AND CLAYS 6. CREATING A FILL PLATFORM THAT IS ABLE TO BE TESTED IN ACCORDANCE WITH AS3798 AND AS1289 						

Lots and pavements where rock of medium strength or stronger was exposed at the final cut earthworks levels, were cut to a depth of approximately 0.6m below the final earthworks levels. The excavated rock was then replaced with fill materials compliant with the specification requirements for materials within the 0.0m to 0.6m depth range as described in Figure 4 and compacted accordingly.

3.0 METHODOLOGY

Earthworks Inspections and Testing was carried out on the stripped ground surfaces and during the placement and compaction of fill materials.

Field and laboratory testing included walk over assessments of the existing ground conditions, proof roll testing of the fill foundations, observations of filling and compaction activities and compaction testing.

3.1 Stripped Surface Assessment

The fill areas covered by this report were stripped and cleared of visible loose materials, vegetation, and topsoil.

Materials exposed after stripping and that formed the fill foundation can be broadly summarised as:

- Natural - Silty Sand (SM) – at least dense, fine to medium grained sands, traces of low plasticity fines, grey – brown and moist.
- Natural – Sandy Clay (CI) – at least Very Stiff, medium plasticity, fine to medium grained sand, pale brown mottled orange and moist.
- Bedrock – Sandstone (XW-HW) – Extremely to Highly weathered, very low to low strength, orange – yellow brown
- Bedrock – Sandstone (MW-SW) – Moderately to Slightly weathered, medium, high, and very high strength, yellow grey, and pale grey

Following the stripped surface assessment of the fill areas, the foundation was approved for filling using the following process:

- Walk over assessments confirming that a competent natural foundation had been exposed.
- Proof roll testing using a large sized truck carrying out multiple passes confirming no movement of the exposed natural foundation.

A photo showing the showing a typical stripped surface is given in Picture 1.

Picture 1: View of The Site During Stripping Operations



3.2 Filling Operations

Fill materials were sourced onsite and can be broadly summarised as: -

- Onsite Gravelly Sandy Clay (CI), medium plasticity fines, fine to coarse sand, fine to coarse gravel, yellow - brown and moist.
- Ripped Sandstone with engineering properties of Gravelly Clayey Sand (SC), fine to coarse sand, fine to coarse gravel, low to medium plasticity fines with cobbles up to 200mm max.
- Blasted Sandstone with engineering properties of Gravelly Clayey Sand (SC), fine to coarse sand, fine to coarse gravel, low to medium plasticity fines with cobbles up to 200mm max.

Ripping operations were required to loosen high and very high strength sandstone. Ripped rock was then processed using mechanical crushing plant.

The methodology for the rock crushing operations can be broadly summarised as: -

- Large rock fragments were broken down by an excavator with a hammer attachment to sizes acceptable for the mechanical crushing plant.
- Mechanical crushing to reduce rock fragments to 200mm size or less.
- Mixing crushed product with onsite materials using a front-end loader and placed into stockpiles assessed to be suitable for filling and earthworks operations.

Placement and compaction of the fill materials was carried out using the following plant: -

- Water Carts
- Pad Foot Roller
- Dozers
- Excavators
- Grader
- Front End Loader
- Cat 825 Compactor
- Articulated Dump Truck's
- Mechanical Rock Crusher's

The fill materials were moisture conditioned at the fill source and during placement to moisture contents suitable for compaction. Deleterious materials such as organics, sticks, roots and over size particles were sorted and removed during placement or were rejected for use. Occasional oversize particles including cobbles may be present in the deeper fill profile, however, are not considered to affect the fill as a mass.

Placement of the fill materials was carried out in layers appropriate for the above plant and compacted using the above plant carrying out multiple passes.

Our representative observed the filling process as described above which was assessed to be consistent for the entire thickness of fill.

Field density tests and laboratory compactions were carried out on the fill materials in accordance with Table 5.1 and 8.1 of AS3798 2007 (Guidelines on Earthworks for Commercial and Residential Developments) and tested to AS1289 test methods (Testing of Soils for Engineering Purposes).

Testing achieved the required specification of 95% of the Standard Maximum Dry Density (SMDD) at the test locations.

Fill placed and compacted at measured density ratios less than 95% was tined, moisture conditioned and re-compacted until the required specification was achieved. Retesting was carried out using Random Stratified Location methods.

The Location of the field density tests are shown on the Site Plans contained in Appendix A. These test locations and levels were not obtained by survey and therefore should only be considered as approximate.

Photos showing the general earthworks operations are given in Pictures 2 to 4.

Picture 2: View of the Crushing Operation and Produced Product



Picture 3: View of the Site During Construction



Picture 4: View of the Site During Construction



4.0 STATEMENT OF COMPLIANCE

Our representatives observed the relevant earthworks operations including the stripped surface, fill placement and compaction operations and carried out field density tests and laboratory compaction tests in accordance with the required standard (AS3798, AS1289). Testing achieved the required specification of 95% SMDD at the test locations.

Level One Inspection and Testing has been carried out on the filling operation and limited to the extent shown in Figure 3. Based on the observations made by our Geotechnicians and the results of the field and laboratory tests, the placed and compacted fill at the above project has, as far as we have been able to assess, been constructed in general accordance with the intent of AS3798.

The fill can be deemed to be “controlled” in accordance with AS2870.

5.0 EXCLUSIONS

This statement does not include any topsoil, which may be placed for use as dressing, trench backfill, areas outside the areas shown in Figure 3 or any other subsequent earthworks after 10th June 2022.

Assessments of material quality such as soaked CBR and site classifications are excluded from this commission.

Our on-site attendance specifically excludes assessments of fill material quality and engineering properties that are outside the requirements of AS3798 – 2007.

Footings and ground slabs for any structures constructed over natural soils or controlled fill should be designed to accommodate the characteristic ground surface movements and settlement potential. Assessments of these design parameters are beyond the scope of this Report.

6.0 LIMITATIONS

This Report has been prepared by Morrison Geotechnic Pty Ltd (**Morrison Geotechnic**), and may include contributions from Morrison Geotechnic's officers and employees, sub-contractors, sub-consultants, or agents (**Contributors**).

This Report is for the sole benefit and use of Shadforth Civil Pty Ltd (**Client**), its designers, clients, and relevant statutory authorities for the sole purpose of providing geotechnical advice and recommendations in respect of the Bulk Earthworks Filling Operations at Precinct 9.3, Everleigh Estate (**Project**). The Report is only intended to address those issues expressly described in the Brief/ Work Instructions in this Report.

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- (b) used or relied upon by any other party.

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The information (including technical information and information obtained through discussions) on which this report is based has been provided by the Client and third parties. Morrison Geotechnic and the Contributors:

- (a) have relied upon and presumed the accuracy of this information.
- (b) have not verified the accuracy or reliability of this information (other than as expressly stated in this Report).
- (c) have not made any independent investigations or enquiries in respect of those matters of which it has no actual knowledge at the time of giving this Report to the Client; and
- (d) make no warranty or guarantee, expressed or implied, as to the accuracy or reliability of this information.

Morrison Geotechnic and the Contributors do not accept responsibility or liability for any incorrect assumptions related to this Report. For the avoidance of doubt, this Report:

- (a) is not an environmental, contamination or hazardous materials assessment; may be invalid, incomplete, or inaccurate (including errors in the scope of work, investigation methodology, observations, opinions, and advice) where the information provided to Morrison Geotechnic was invalid, incomplete, or inaccurate.
- (b) is limited to observations of those parts of the site described in Section 1.0.

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If further information becomes available, or additional assumptions need to be made, Morrison Geotechnic reserves its right to amend this Report.

If you have any queries regarding the above, please contact our Gold Coast office.

Yours sincerely



Nicholas Dobson
For and on behalf of
MORRISON GEOTECHNIC PTY LIMITED



Simon Wynne RPEQ 17390
For and on behalf of
MORRISON GEOTECHNIC PTY LIMITED

ATTACHMENTS:

Appendix A – Site Plans Showing Test Locations
Appendix B – Laboratory Test Results Reports

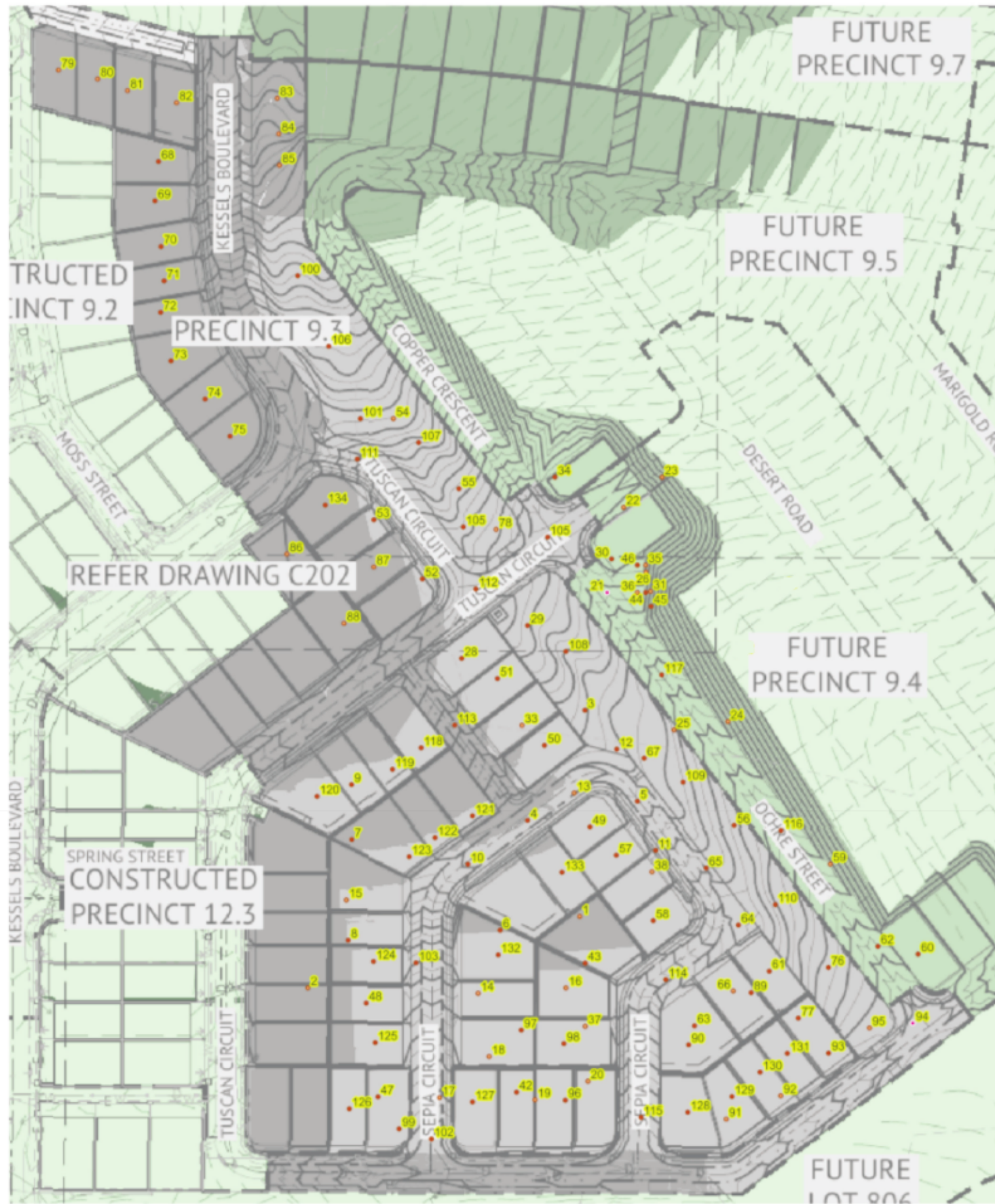


Appendix A

Site Plan & Test Locations

MORRISON GEOTECHNIC PTY LTD





MORRISON GEOTECHNIC PTY LTD

ABN: 51 009 878 899

Unit 34A / 53-57 Link Drive, Yatala 4207 Ph: 5596 1599
 Email: goldcoastlab@morrisongeo.com.au

Engineers: M.Ballard
 D.Dragun
 Geologists: R.Howchin
 Laboratory: I.Masman, G.Taylor

LEGEND

- — 0.0m TO 0.6m - Below FSL
- — 0.6m to 1.0m - Below FSL
- — 1.0m to 2.0m - Below FSL
- — 2.0m to 3.0m - Below FSL
- — 3.0m to 4.0m - Below FSL

Map Description :	Test Plots				
Client :	Shadforth P/L				
Project :	Precinct 9.3				
Project No :	GL22/005	Drawing No :	1/1	Scale :	Not to Scale



Appendix B

Laboratory Test Reports

MORRISON GEOTECHNIC PTY LTD



MORRISON
GEOTECHNIC

Material Test Report



Brisbane | Gold Coast | Maroochydore
 Morrison Geotechnic Pty Ltd
 ABN: 51 009 878 899
 Gold Coast Laboratory
 Unit 34A / 53-57 Link Drive Yatala QLD 4207
 Phone: (07) 5596 1599
 Email: gtaylor@mgeo.com.au

Report Number: GL22/005-1
Issue Number: 1
Date Issued: 15/02/2022
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: Callum
Project Number: GL22/005
Project Name: Everleigh Precinct 9.3 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 6620
Date Sampled: 24/01/2022
Dates Tested: 24/01/2022 - 02/02/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	G22-6620A	G22-6620B	
Test Number	1	2	
Date Tested	24/01/2022	24/01/2022	
Time Tested	**	**	
Test Request #/Location	LOT 3184	LOT 3182	
Easting	499066	498967	
Northing	6931829	6931803	
Elevation (m)	51.517	54.398	
Layer / Reduced Level	Foundation	Foundation	
Soil Description	Sandy Gravelly Clay. Orange-Brown	Sandy Gravelly Clay. Orange-Brown	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	9	11	
Field Wet Density (FWD) t/m ³	2.15	2.15	
Field Moisture Content %	10.6	12.1	
Field Dry Density (FDD) t/m ³	1.95	1.92	
Peak Converted Wet Density t/m ³	**	**	
Adjusted Peak Converted Wet Density t/m ³	2.14	2.13	
Moisture Variation (Wv) %	**	**	
Adjusted Moisture Variation %	0.5	0.5	
Hilf Density Ratio (%)	101.0	101.0	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:
 Positive values = test is dry of OMC
 Negative values = test is wet of OMC

Material Test Report



Brisbane | Gold Coast | Maroochydore

Morrison Geotechnic Pty Ltd

ABN: 51 009 878 899

Gold Coast Laboratory

Unit 34A / 53-57 Link Drive Yatala QLD 4207

Phone: (07) 5596 1599

Email: gtaylor@mgeo.com.au

Report Number: GL22/005-2
Issue Number: 1
Date Issued: 15/02/2022
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: Callum
Project Number: GL22/005
Project Name: Everleigh Precinct 9.3 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 6634
Date Sampled: 25/01/2022
Dates Tested: 25/01/2022 - 02/02/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	G22-6634A	G22-6634B	G22-6634C	G22-6634D	G22-6634E	G22-6634F
Test Number	3	4	5	6	7	8
Date Tested	25/01/2022	25/01/2022	25/01/2022	25/01/2022	25/01/2022	25/01/2022
Time Tested	12:33	12:48	01:11	01:25	01:50	02:00
Test Request #/Location	LOT 3170	LOT 3175	LOT 3172	LOT 3177	LOT 3165	LOT 3163
Easting	499068	499047	499087	499037	498983	498982
Northing	6931904	6931864	6931871	6931824	6931857	6931820
Elevation (m)	53.154	54.126	52.900	54.530	54.500	53.760
Layer / Reduced Level	0.7m BELIW FL	0.5m BELOW FL	0.65m BELOW FL	0.55m BELOW FL	0.58m BELOW FL	0.29m BELOW FL
Soil Description	Sandy Clay. Orange-Brown	Sandy Clay. Orange-Brown	Sandy Clay. Orange-Brown	Sandy Clay. Orange-Brown	Sandy Clay. Orange-Brown	Sandy Clay. Orange-Brown
Test Depth (mm)	150	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	10	9	12	7	12	13
Field Wet Density (FWD) t/m ³	2.13	2.16	2.18	2.16	2.12	2.13
Field Moisture Content %	11.3	11.6	10.6	11.5	11.0	11.4
Field Dry Density (FDD) t/m ³	1.92	1.93	1.97	1.93	1.91	1.91
Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.17	2.17	2.19	2.14	2.16	2.19
Moisture Variation (Wv) %	**	**	**	**	**	**
Adjusted Moisture Variation %	1.0	0.5	0.5	1.0	0.5	1.0
Hilf Density Ratio (%)	98.5	99.5	99.5	100.5	98.0	97.5
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**	**

Moisture Variation Note:
 Positive values = test is dry of OMC
 Negative values = test is wet of OMC

Material Test Report



Brisbane | Gold Coast | Maroochydore
 Morrison Geotechnic Pty Ltd
 Gold Coast Laboratory
 Unit 34A / 53-57 Link Drive Yatala QLD 4207
 ABN: 51 009 878 899
 Phone: (07) 5596 1599
 Email: gtaylor@mgeo.com.au

Report Number: GL22/005-3
Issue Number: 1
Date Issued: 20/02/2022
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: Callum
Project Number: GL22/005
Project Name: Everleigh Precinct 9.3 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 6677
Date Sampled: 02/02/2022
Dates Tested: 02/02/2022 - 04/02/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

S Taylor

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	G22-6677A	G22-6677B	G22-6677C	G22-6677D
Test Number	9	10	11	12
Date Tested	02/02/2022	02/02/2022	02/02/2022	02/02/2022
Time Tested	11:43	12:04	12:27	12:48
Test Request #/Location	LOT 3166	LOT 3176	LOT 3173	LOT 3171
Easting	498983	499025	499094	499079
Northing	6931877	6931848	6931853	6931890
Elevation (m)	55.590	54.450	54.600	54.120
Layer / Reduced Level	0.6m BELOW FL	0.6m BELOW FL	0.62m BELOW FL	0.6m BELOW FL
Soil Description	Sandy Gravelly Clay. Orange-Brown	Sandy Gravelly Clay. Orange-Brown	Sandy Gravelly Clay. Orange-Brown	Sandy Gravelly Clay. Orange-Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	9	7	10	10
Field Wet Density (FWD) t/m ³	2.12	2.11	2.11	2.11
Field Moisture Content %	13.0	12.6	12.9	13.5
Field Dry Density (FDD) t/m ³	1.87	1.87	1.87	1.86
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.15	2.13	2.17	2.17
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	-0.5	0.0	-0.5	0.0
Hilf Density Ratio (%)	98.5	98.5	97.0	97.5
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:
 Positive values = test is dry of OMC
 Negative values = test is wet of OMC

Material Test Report



Brisbane | Gold Coast | Maroochydore

Morrison Geotechnic Pty Ltd

ABN: 51 009 878 899

Gold Coast Laboratory

Unit 34A / 53-57 Link Drive Yatala QLD 4207

Phone: (07) 5596 1599

Email: gtaylor@mgeo.com.au

Report Number: GL22/005-4
Issue Number: 1
Date Issued: 20/02/2022
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: Callum
Project Number: GL22/005
Project Name: Everleigh Precinct 9.3 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 6692
Date Sampled: 08/02/2022
Dates Tested: 08/02/2022 - 09/02/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	G22-6692A	G22-6692B	G22-6692C	G22-6692D
Test Number	13	14	15	16
Date Tested	08/02/2022	08/02/2022	08/02/2022	08/02/2022
Time Tested	09:38	10:15	11:36	01:45
Test Request #/Location	LOT 3174	LOT 3178	LOT 3185	LOT 3183
Easting	499064	499029	499081	499061
Northing	6931874	6931801	6931835	6931803
Elevation (m)	53.674	50.634	51.067	49.574
Layer / Reduced Level	1.5m BELOW FL	1.0m BELOW FL	1.5m BELOW FL	1.5m BELOW FL
Soil Description	Sandy Gravelly Clay. Orange-Brown	Sandy Gravelly Clay. Orange-Brown	Sandy Gravelly Clay. Orange-Brown	Sandy Gravelly Clay. Orange-Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0
Field Wet Density (FWD) t/m ³	2.16	2.13	2.14	2.14
Field Moisture Content %	12.5	13.1	12.8	11.8
Field Dry Density (FDD) t/m ³	1.92	1.88	1.90	1.92
Peak Converted Wet Density t/m ³	2.20	2.17	2.19	2.20
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	0.5	0.0	0.0	0.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	98.5	98.0	97.5	97.5
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC
 Negative values = test is wet of OMC

Material Test Report



Brisbane | Gold Coast | Maroochydore
 Morrison Geotechnic Pty Ltd
 ABN: 51 009 878 899
 Gold Coast Laboratory
 Unit 34A / 53-57 Link Drive Yatala QLD 4207
 Phone: (07) 5596 1599
 Email: gtaylor@mgeo.com.au

Report Number: GL22/005-5
Issue Number: 1
Date Issued: 23/02/2022
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: Callum
Project Number: GL22/005
Project Name: Everleigh Precinct 9.3 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 6704
Date Sampled: 09/02/2022
Dates Tested: 09/02/2022 - 15/02/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



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S Taylor

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	G22-6704A	G22-6704B	G22-6704C	G22-6704D
Test Number	17	18	19	20
Date Tested	09/02/2022	09/02/2022	09/02/2022	09/02/2022
Time Tested	09:17	09:38	12:23	13:06
Test Request #/Location	LOT 3179	LOT 3180	LOT 3181	LOT 3182
Easting	499015	499033	499050	499069
Northing	6931763	6931778	6931762	6931769
Elevation (m)	49.034	48.349	48.536	48.646
Layer / Reduced Level	1.5m BELOW FL	1.5m BELOW FL	1.5m BELOW FL	1.5m BELOW FL
Soil Description	Sandy Gravelly Clay. Orange-Brown	Sandy Gravelly Clay. Orange-Brown	Sandy Gravelly Clay. Orange-Brown	Sandy Gravelly Clay. Orange-Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	9	8	9	9
Field Wet Density (FWD) t/m ³	2.13	2.11	2.12	2.12
Field Moisture Content %	10.5	10.7	11.7	10.3
Field Dry Density (FDD) t/m ³	1.93	1.91	1.90	1.92
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.06	2.04	2.07	2.06
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	1.5	1.5	1.5	1.5
Hilf Density Ratio (%)	103.5	103.5	102.5	103.0
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:
 Positive values = test is dry of OMC
 Negative values = test is wet of OMC

Material Test Report



Brisbane | Gold Coast | Maroochydore
 Morrison Geotechnic Pty Ltd
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Report Number: GL22/005-6
Issue Number: 1
Date Issued: 27/03/2022
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: Callum
Project Number: GL22/005
Project Name: Everleigh Precinct 9.3 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 6741
Date Sampled: 15/02/2022
Dates Tested: 15/02/2022 - 24/02/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



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S Taylor

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	G22-6741A	G22-6741B	G22-6741C	G22-6741D	G22-6741E
Test Number	21	22	23	24	25
Date Tested	15/02/2022	15/02/2022	15/02/2022	15/02/2022	15/02/2022
Time Tested	09:00	09:15	10:00	10:17	10:29
Test Request #/Location	GENERAL FILL	GENERAL FILL	GENERAL FILL	GENERAL FILL	GENERAL FILL
Easting	499076	499082	499096	499120	499100
Northing	6931947	6931978	6931989	6931900	6931897
Layer / Reduced Level	2m BELOW FL	1.9m BELOW FL	1.7m BELOW FL	1.7m BELOW FL	1.4m BELOW FL
Soil Description	Sandy Clay. Orange-Brown	Sandy Clay. Orange-Brown	Sandy Clay. Orange-Brown	Sandy Clay. Orange-Brown	Sandy Clay. Orange-Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	10	10	8	10	11
Field Wet Density (FWD) t/m ³	2.09	2.08	2.13	2.14	2.16
Field Moisture Content %	11.3	11.5	13.6	9.5	11.6
Field Dry Density (FDD) t/m ³	1.88	1.87	1.87	1.95	1.94
Peak Converted Wet Density t/m ³	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.20	2.19	2.18	2.16	2.21
Moisture Variation (Wv) %	**	**	**	**	**
Adjusted Moisture Variation %	0.0	0.0	-0.5	2.0	0.0
Hilf Density Ratio (%)	95.0	95.0	97.5	99.0	97.5
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC
 Negative values = test is wet of OMC

Material Test Report

Report Number: GL22/005-6
Issue Number: 1
Date Issued: 27/03/2022
Client: SHADFORTH'S CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: Callum
Project Number: GL22/005
Project Name: Everleigh Precinct 9.3 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 6741
Date Sampled: 15/02/2022
Dates Tested: 15/02/2022 - 24/02/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



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Approved Signatory: Gary Taylor
Geotech Field Supervisor
NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	G22-6741F	G22-6741G	G22-6741H	G22-6741I	G22-6741J
Test Number	26	27	28	29	30
Date Tested	15/02/2022	15/02/2022	15/02/2022	15/02/2022	15/02/2022
Time Tested	10:46	11:45	12:32	13:25	14:10
Test Request #/Location	GENERAL FILL	GENERAL FILL	GENERAL FILL	GENERAL FILL	GENERAL FILL
Easting	499090	499140	499023	499047	499078
Northing	6931954	6931948	6931923	6931935	6931959
Layer / Reduced Level	1.1m BELOW FL	0.9m BELOW FL	0.6m BELOW FL	0.3m BELOW FL	0.4m BELOW FL
Soil Description	Sandy Clay. Orange-Brown	Sandy Clay. Orange-Brown	Sandy Clay. Orange-Brown	Sandy Clay. Orange-Brown	Sandy Clay. Orange-Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	10	12	7	12	10
Field Wet Density (FWD) t/m ³	2.14	2.16	2.14	2.14	2.13
Field Moisture Content %	9.8	11.2	13.1	11.8	8.8
Field Dry Density (FDD) t/m ³	1.95	1.94	1.89	1.92	1.96
Peak Converted Wet Density t/m ³	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.18	2.19	2.18	2.22	2.15
Moisture Variation (Wv) %	**	**	**	**	**
Adjusted Moisture Variation %	0.5	0.0	-0.5	0.0	2.0
Hilf Density Ratio (%)	98.0	98.5	98.0	96.5	99.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC
Negative values = test is wet of OMC

Material Test Report



Brisbane | Gold Coast | Maroochydore

Morrison Geotechnic Pty Ltd

ABN: 51 009 878 899

Gold Coast Laboratory

Unit 34A / 53-57 Link Drive Yatala QLD 4207

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Report Number: GL22/005-7
Issue Number: 1
Date Issued: 29/03/2022
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: Callum
Project Number: GL22/005
Project Name: Everleigh Precinct 9.3 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 6837
Date Sampled: 16/03/2022
Dates Tested: 16/03/2022 - 16/03/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Gary Taylor

Geotech Field Supervisor

NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	G22-6837A	G22-6837B	G22-6837C	G22-6837D
Test Number	31	32	33	34
Date Tested	15/03/2022	15/03/2022	15/03/2022	15/03/2022
Time Tested	09:00	09:45	10:20	10:57
Test Request #/Location	GENERAL FILL	GENERAL FILL	GENERAL FILL	GENERAL FILL
Easting	499092	499123	499045	499057
Northing	6931947	6931924	6931899	6931989
Layer / Reduced Level	1.7m BELOW FL	1.5m BELOW FL	1.2m BELOW FL	0.9m BELOW FL
Soil Description	Clayey Sandy Gravel - Brown	Clayey Sandy Gravel - Brown	Clayey Sandy Gravel - Brown	Clayey Sandy Gravel - Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	11	11	11	12
Field Wet Density (FWD) t/m ³	2.18	2.17	2.16	2.16
Field Moisture Content %	10.6	9.5	9.2	9.7
Field Dry Density (FDD) t/m ³	1.97	1.98	1.98	1.97
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.13	2.15	2.16	2.15
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	1.5	1.5	1.5	1.5
Hilf Density Ratio (%)	102.5	100.5	100.0	100.0
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Brisbane | Gold Coast | Maroochydore
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Report Number: GL22/005-8
Issue Number: 1
Date Issued: 29/03/2022
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: Callum
Project Number: GL22/005
Project Name: Everleigh Precinct 9.3 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 6848
Date Sampled: 16/03/2022
Dates Tested: 16/03/2022 - 26/03/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



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G Taylor

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	G22-6848A	G22-6848B	G22-6848C	G22-6848D
Test Number	35	36	37	38
Date Tested	16/03/2022	16/03/2022	16/03/2022	16/03/2022
Time Tested	11:00	11:30	12:45	14:30
Test Request #/Location	GENERAL FILL	GENERAL FILL	GENERAL FILL	GENERAL FILL
Easting	499090	499087	499068	4990092
Northing	6931957	6931947	6931789	6931845
Layer / Reduced Level	2m BELOW FL	1.8m BELOW FL	1.5m BELOW FL	1.5m BELOW FL
Soil Description	Sandy Silty Clay. Grey/Brown	Sandy Silty Clay. Grey/Brown	Sandy Silty Clay. Grey/Brown	Sandy Silty Clay. Grey/Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0
Field Wet Density (FWD) t/m ³	2.13	2.12	2.10	2.10
Field Moisture Content %	11.7	11.5	9.8	10.8
Field Dry Density (FDD) t/m ³	1.91	1.90	1.92	1.90
Peak Converted Wet Density t/m ³	2.13	2.11	2.10	2.15
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	0.0	0.0	0.5	0.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	100.5	100.0	100.0	98.0
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC
 Negative values = test is wet of OMC

Material Test Report



Brisbane | Gold Coast | Maroochydore

Morrison Geotechnic Pty Ltd

ABN: 51 009 878 899

Gold Coast Laboratory

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Email: gtaylor@mgeo.com.au

Report Number: GL22/005-9
Issue Number: 1
Date Issued: 03/04/2022
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: Callum
Project Number: GL22/005
Project Name: Everleigh Precinct 9.3 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 6887
Date Sampled: 22/03/2022
Dates Tested: 22/03/2022 - 30/03/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Gary Taylor
 Geotech Field Supervisor

NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	G22-6887A	G22-6887B	G22-6887C	G22-6887D	G22-6887E
Test Number	39	40	41	42	43
Date Tested	22/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Time Tested	09:00	09:45	10:00	11:30	12:02
Test Request #/Location	GENERAL FILL	GENERAL FILL	GENERAL FILL	GENERAL FILL	GENERAL FILL
Easting	499090	499094	499056	499043	499068
Northing	6931605	6931689	6931675	6931765	6931812
Layer / Reduced Level	1.2m BELOW FL	0.9m BELOW FL	0.6m BELOW FL	0.3m BELOW FL	FINISHED LEVEL
Soil Description	Sandy Gravelly Clay - Brown	Sandy Gravelly Clay - Brown	Sandy Gravelly Clay - Brown	Sandy Gravelly Clay - Brown	Sandy Gravelly Clay - Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	8	11	11	8	12
Field Wet Density (FWD) t/m ³	2.09	2.08	2.09	2.09	2.07
Field Moisture Content %	11.0	11.5	11.2	10.6	12.3
Field Dry Density (FDD) t/m ³	1.88	1.87	1.88	1.89	1.85
Peak Converted Wet Density t/m ³	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.10	2.13	2.13	2.10	2.13
Moisture Variation (Wv) %	**	**	**	**	**
Adjusted Moisture Variation %	1.0	1.0	-0.5	0.5	0.0
Hilf Density Ratio (%)	99.5	98.0	98.5	99.5	97.5
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Brisbane | Gold Coast | Maroochydore

Morrison Geotechnic Pty Ltd

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Gold Coast Laboratory

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Report Number: GL22/005-10
Issue Number: 1
Date Issued: 03/04/2022
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: Callum
Project Number: GL22/005
Project Name: Everleigh Precinct 9.3 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 6931
Date Sampled: 25/03/2022
Dates Tested: 25/03/2022 - 30/03/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	G22-6931A	G22-6931B	G22-6931C
Test Number	44	45	46
Date Tested	25/03/2022	25/03/2022	25/03/2022
Time Tested	11:10	11:30	12:04
Test Request #/Location	GENERAL FILL	GENERAL FILL	GENERAL FILL
Easting	499090	499092	499087
Northing	6931947	6931942	6931957
Layer / Reduced Level	0.6m BELOW FL	0.3m BELOW FL	FINISHED LEVEL
Soil Description	Sandy Gravelly Clay, Orange Brown	Sandy Gravelly Clay, Orange Brown	Sandy Gravelly Clay, Orange Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	11	9	10
Field Wet Density (FWD) t/m ³	2.15	2.13	2.17
Field Moisture Content %	12.1	11.8	11.2
Field Dry Density (FDD) t/m ³	1.92	1.90	1.95
Peak Converted Wet Density t/m ³	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.19	2.17	2.17
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	-0.5	0.0	0.0
Hilf Density Ratio (%)	98.0	98.0	100.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC
 Negative values = test is wet of OMC

Material Test Report



Brisbane | Gold Coast | Maroochydore
 Morrison Geotechnic Pty Ltd
 Gold Coast Laboratory
 ABN: 51 009 878 899
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 Email: gtaylor@mgeo.com.au

Report Number: GL22/005-11
Issue Number: 1
Date Issued: 17/04/2022
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: Callum
Project Number: GL22/005
Project Name: Everleigh Precinct 9.3 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 6989
Date Sampled: 06/04/2022
Dates Tested: 06/04/2022 - 11/04/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD \pm 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

G Taylor

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	G22-6989A	G22-6989B	G22-6989C	G22-6989D	G22-6989E	G22-6989F
Test Number	47	48	49	50	51	52
Date Tested	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
Time Tested	12:05	12:15	12:25	12:35	12:45	12:55
Test Request #/Location	LOT 3160	LOT 3163	LOT 3170	LOT 3146	LOT 3144	LOT 3137
Easting	498993	498988	499070	499053	499036	499009
Northing	6931763	6931797	6931862	6931891	6931916	6931952
Elevation (m)	0.9m BELOW FL	0.6m BELOW FL	0.6m BELOW FL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL
Soil Description	Sandy Clay. Pale-Brown	Sandy Clay. Pale-Brown	Sandy Clay. Pale-Brown	Sandy Clay. Pale-Brown	Sandy Clay. Pale-Brown	Sandy Clay. Pale-Brown
Test Depth (mm)	150	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	16	10	14	10	11	10
Field Wet Density (FWD) t/m ³	2.20	2.20	2.22	2.15	2.14	2.12
Field Moisture Content %	11.1	11.1	11.2	8.8	10.6	11.2
Field Dry Density (FDD) t/m ³	1.98	1.98	2.00	1.98	1.93	1.91
Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.21	2.22	2.23	2.21	2.23	2.23
Moisture Variation (Wv) %	**	**	**	**	**	**
Adjusted Moisture Variation %	0.0	-0.5	-0.5	-0.5	-2.0	-0.5
Hilf Density Ratio (%)	99.5	99.0	99.5	97.5	95.5	95.0
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC
 Negative values = test is wet of OMC

Material Test Report



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Morrison Geotechnic Pty Ltd

ABN: 51 009 878 899

Gold Coast Laboratory

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Report Number: GL22/005-12
Issue Number: 1
Date Issued: 17/04/2022
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: Callum
Project Number: GL22/005
Project Name: Everleigh Precinct 9.3 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 7018
Date Sampled: 11/04/2022
Dates Tested: 11/04/2022 - 13/04/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	G22-7018A	G22-7018B	G22-7018C	G22-7018D	G22-7018E	G22-7018F
Test Number	53	54	55	56	57	58
Date Tested	11/04/2022	11/04/2022	11/04/2022	11/04/2022	11/04/2022	11/04/2022
Time Tested	10:35	10:40	10:45	10:50	10:55	11:00
Test Request #/Location	LOT 3135	PARK LOT 821	PARK LOT 821	PARK LOT 820	LOT 3171	LOT 3173
Easting	498991	498998	499022	499122	499079	499093
Northing	6931974	6932010	6931985	6931862	6931851	6931827
Elevation (m)	FINISHED LEVEL	1m BELOW FL	0.7m BELOW FL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL
Soil Description	Sandy Clay. Brown	Sandy Clay. Brown	Sandy Clay. Brown	Sandy Clay. Brown	Sandy Clay. Brown	Sandy Clay. Brown
Test Depth (mm)	150	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	11	11	14	10	11	**
Field Wet Density (FWD) t/m ³	2.17	2.16	2.19	2.15	2.14	2.16
Field Moisture Content %	12.9	13.2	11.9	13.1	18.4	13.4
Field Dry Density (FDD) t/m ³	1.92	1.91	1.96	1.90	1.81	1.91
Peak Converted Wet Density t/m ³	**	**	**	**	**	2.16
Adjusted Peak Converted Wet Density t/m ³	2.18	2.20	2.22	2.19	2.21	**
Moisture Variation (Wv) %	**	**	**	**	**	0.0
Adjusted Moisture Variation %	0.0	0.0	0.5	0.5	0.0	**
Hilf Density Ratio (%)	99.5	98.0	98.5	98.0	97.0	100.5
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC
 Negative values = test is wet of OMC

Material Test Report



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Report Number: GL22/005-13
Issue Number: 1
Date Issued: 24/04/2022
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: Callum
Project Number: GL22/005
Project Name: Everleigh Precinct 9.3 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 7042
Date Sampled: 19/04/2022
Dates Tested: 19/04/2022 - 20/04/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by Client
Material: General Fill
Material Source: Onsite



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S Taylor

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	G22-7042A	G22-7042B	G22-7042C
Test Number	59	60	61
Date Tested	19/04/2022	19/04/2022	19/04/2022
Time Tested	14:00	14:10	14:20
Test Request #/Location	OCHRE STREET	FUTURE LOT	LOT 3186
Easting	499157	499189	499135
Northing	6931848	6931815	6931809
Elevation (m)	1m BELOW FL	0.6m BELOW FL	0.6m BELOW FL
Soil Description	Sandy Clay. Brown	Sandy Clay. Brown	Sandy Clay. Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	2.12	2.13	2.12
Field Moisture Content %	13.4	12.8	12.6
Field Dry Density (FDD) t/m ³	1.87	1.89	1.88
Peak Converted Wet Density t/m ³	2.10	2.13	2.12
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	-0.5	-0.5	-0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	101.0	100.0	100.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:
 Positive values = test is dry of OMC
 Negative values = test is wet of OMC

Material Test Report



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Report Number: GL22/005-14
Issue Number: 1
Date Issued: 07/05/2022
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: Callum
Project Number: GL22/005
Project Name: Everleigh Precinct 9.3 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 7051
Date Sampled: 20/04/2022 10:00
Dates Tested: 20/04/2022 - 22/04/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



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Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	G22-7051A	G22-7051B	
Test Number	62	63	
Date Tested	20/04/2022	20/04/2022	
Time Tested	10:30	11:00	
Test Request #/Location	GENERAL FILL	GENERAL FILL	
Easting	499175	499108	
Northing	6931818	6931789	
Layer / Reduced Level	0.6m BELOW FL	1.2m BELOW FL	
Soil Description	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	8	7	
Field Wet Density (FWD) t/m ³	2.21	2.17	
Field Moisture Content %	9.9	9.2	
Field Dry Density (FDD) t/m ³	2.01	1.98	
Peak Converted Wet Density t/m ³	**	**	
Adjusted Peak Converted Wet Density t/m ³	2.22	2.21	
Moisture Variation (Wv) %	**	**	
Adjusted Moisture Variation %	0.0	0.0	
Hilf Density Ratio (%)	99.5	98.0	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC
 Negative values = test is wet of OMC

Material Test Report



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Report Number: GL22/005-15
Issue Number: 1
Date Issued: 07/05/2022
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: Callum
Project Number: GL22/005
Project Name: Everleigh Precinct 9.3 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 7063
Date Sampled: 22/04/2022
Dates Tested: 22/04/2022 - 28/04/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Material: General Fill
Material Source: Onsite



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Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	G22-7063A	G22-7063B	G22-7063C	G22-7063D
Test Number	64	65	66	67
Date Tested	22/04/2022	22/04/2022	22/04/2022	22/04/2022
Time Tested	08:12	09:00	09:25	10:00
Test Request #/Location	GENERAL FILL	GENERAL FILL	GENERAL FILL	GENERAL FILL
Easting	499124	499112	499122	499089
Northing	6931826	6931847	6931802	6931887
Layer / Reduced Level	0.6m BELOW FL	0.6m BELOW FL	1m BELOW FL	0.6m BELOW FL
Soil Description	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	16	17	17	15
Field Wet Density (FWD) t/m ³	2.19	2.25	2.27	2.24
Field Moisture Content %	8.6	9.4	9.6	8.8
Field Dry Density (FDD) t/m ³	2.02	2.06	2.07	2.06
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.17	2.19	2.19	2.20
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	0.5	0.5	0.0	0.5
Hilf Density Ratio (%)	101.0	102.5	103.5	101.5
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC
 Negative values = test is wet of OMC

Material Test Report

Report Number: GL22/005-16
Issue Number: 1
Date Issued: 14/05/2022
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: Callum
Project Number: GL22/005
Project Name: Everleigh Precinct 9.3 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 7109
Date Sampled: 03/05/2022
Dates Tested: 03/05/2022 - 11/05/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Lot Number: Lot 3111, 3112, 3113, 3114, 3115, 3116, 3117, 3118
Material: General Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	G22-7109A	G22-7109B	G22-7109C	G22-7109D
Test Number	68	69	70	71
Date Tested	03/05/2022	03/05/2022	03/05/2022	03/05/2022
Time Tested	11:00	11:20	11:35	11:45
Test Request #/Location	GENERAL FILL	GENERAL FILL	GENERAL FILL	GENERAL FILL
Easting	498913	498911	498913	498915
Northing	6932104	6932090	6932073	6932061
Layer / Reduced Level	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL
Soil Description	Sandy Gravelly Clay. Orange-Brown	Sandy Gravelly Clay. Orange-Brown	Sandy Gravelly Clay. Orange-Brown	Sandy Gravelly Clay. Orange-Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	18	19	16	16
Field Wet Density (FWD) t/m ³	2.23	2.25	2.19	2.19
Field Moisture Content %	9.1	9.8	10.4	10.7
Field Dry Density (FDD) t/m ³	2.05	2.05	1.98	1.98
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.15	2.17	2.18	2.20
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	1.0	1.0	1.0	1.0
Hilf Density Ratio (%)	103.5	103.5	100.5	99.5
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC
 Negative values = test is wet of OMC

Material Test Report

Report Number: GL22/005-16
Issue Number: 1
Date Issued: 14/05/2022
Client: SHADFORTH'S CIVIL PTY LTD
99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: Callum
Project Number: GL22/005
Project Name: Everleigh Precinct 9.3 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 7109
Date Sampled: 03/05/2022
Dates Tested: 03/05/2022 - 11/05/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by GTA
Lot Number: Lot 3111, 3112, 3113, 3114, 3115, 3116, 3117, 3118
Material: General Fill
Material Source: Onsite



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Approved Signatory: Gary Taylor
Geotech Field Supervisor
NATA Accredited Laboratory Number: 1169

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	G22-7109E	G22-7109F	G22-7109G	G22-7109H
Test Number	72	73	74	75
Date Tested	03/05/2022	03/05/2022	03/05/2022	03/05/2022
Time Tested	12:15	13:39	14:25	14:50
Test Request #/Location	GENERAL FILL	GENERAL FILL	GENERAL FILL	GENERAL FILL
Easting	498913	498917	498929	498939
Northing	6932049	6932031	6932017	6932004
Layer / Reduced Level	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL	FINISHED LEVEL
Soil Description	Sandy Gravelly Clay. Orange-Brown	Sandy Gravelly Clay. Orange-Brown	Sandy Gravelly Clay. Orange-Brown	Sandy Gravelly Clay. Orange-Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	16	19	13	20
Field Wet Density (FWD) t/m ³	2.12	2.24	2.18	2.26
Field Moisture Content %	9.8	9.9	10.0	10.1
Field Dry Density (FDD) t/m ³	1.94	2.04	1.99	2.05
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.18	2.18	2.17	2.20
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	1.5	1.0	1.5	1.0
Hilf Density Ratio (%)	97.5	102.5	100.5	102.5
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC
Negative values = test is wet of OMC

Material Test Report



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Report Number: GL22/005-17
Issue Number: 1
Date Issued: 06/06/2022
Client: SHADFORTH'S CIVIL PTY LTD
 99 SANDALWOOD LANE, FOREST GLEN QLD 4556
Contact: Callum
Project Number: GL22/005
Project Name: Everleigh Precinct 9.3 - Level 1 Earthworks
Project Location: Teviot Road, Greenbank
Work Request: 7194
Date Sampled: 27/05/2022
Dates Tested: 27/05/2022 - 30/05/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD ± 2% OMC
Site Selection: Selected by Client
Material: General Fill
Material Source: Onsite



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S Taylor

Approved Signatory: Gary Taylor
 Geotech Field Supervisor
 NATA Accredited Laboratory Number: 1169



Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	G22-7194A	G22-7194B	G22-7194C
Test Number	76	77	78
Date Tested	27/05/2022	27/05/2022	27/05/2022
Time Tested	11:30	12:43	13:18
Test Request #/Location	GENERAL FILL	GENERAL FILL	GENERAL FILL
Easting	499157	499146	499036
Northing	6931810	6931792	6931970
Layer / Reduced Level	0.3m BELOW FL	0.4m BELOW FL	0.1m BELOW FL
Soil Description	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	16	18	16
Field Wet Density (FWD) t/m ³	2.27	2.29	2.27
Field Moisture Content %	8.9	8.6	9.7
Field Dry Density (FDD) t/m ³	2.09	2.11	2.07
Peak Converted Wet Density t/m ³	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.20	2.21	2.21
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	1.0	1.0	1.0
Hilf Density Ratio (%)	103.5	103.5	103.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:
 Positive values = test is dry of OMC
 Negative values = test is wet of OMC



Dry Density / Moisture Ratio Report

Client :	Shadforth			Report Number :	SR/PTP/09426 - 5/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	13/09/2022	
Project Name :	Everleigh Estate - Precinct 9.3 Earthworks - GL22/005			Test Request :	-	
Project Number :	PTP/09426			Page 1 of 3		
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.1.1,					
Sample Number :	S/142918	S/142919	S/142920	S/142921	S/142922	S/142923
Date Tested :	29/06/2022	29/06/2022	29/06/2022	29/06/2022	29/06/2022	29/06/2022
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
For use as :	General Fill	General Fill	General Fill	General Fill	General Fill	General Fill
Test / Layer Depths :	150 / -	150 / -	150 / -	150 / -	150 / -	150 / -
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b
Time :	06:40	06:41	06:41	06:41	06:41	06:41
Lot Number :	3147	3148	3150	3169	3168	3167
Location 1 :	E: 499008	E: 498998	E: 4989703	E: 499027	E: 499013	E: 499004
Location 2 :	N: 6931890	N: 6931883	N: 693187	N: 6931866	N: 6931858	N: 6931851
Location 3 :	Finish Level	Finish Level	Finish Level	Finish Level	Finish Level	Finish Level
Location 4 :	-	-	-	-	-	-
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	3%	7%	8%	3%	6%	2%
Oversize Dry :	3%	7%	8%	3%	7%	3%
Oversize Density - Dry (t/m ³) :	2.54	2.48	2.54	2.52	2.46	2.50
Assigned MDR (Yes/No) :	No	No	No	No	No	No
MDR Sample Number :	S/142918	S/142919	S/142920	S/142921	S/142922	S/142923
MDR Test Date :	1/07/2022	2/07/2022	2/07/2022	30/06/2022	1/07/2022	2/07/2022
Soil Description :	Sandy Gravelly Clay - Brown	Sandy Gravelly Clay - Brown	Sandy Gravelly Clay - Brown	Sandy Gravelly Clay - Brown	Sandy Gravelly Clay - Brown	Sandy Gravelly Clay - Brown
MDR Test Results						
MDD (t/m ³) :	2.14	2.05	2.02	2.00	2.17	2.15
OMC :	8.0%	11.0%	11.5%	8.0%	7.0%	9.0%
ADJ MDD (t/m ³) :	2.15	2.07	2.05	2.01	2.19	2.15
ADJ OMC :	7.5%	10.0%	10.5%	8.0%	6.5%	9.0%
Moisture Test Results :						
Field Moisture Content :	8.5%	8.0%	8.5%	9.5%	7.5%	7.0%
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC
Variation from OMC :	1.0% Wet of OMC	2.0% Dry of OMC	2.0% Dry of OMC	1.5% Wet of OMC	0.5% Wet of OMC	2.0% Dry of OMC
Relative Moisture Ratio (Q250) :	-	-	-	-	-	-
Moisture Ratio :	114.5%	80.0%	79.5%	121.0%	108.5%	76.0%
Density Test Results						
Field Dry Density (t/m ³) :	2.07	2.02	1.98	1.97	2.13	2.15
Density Specification :	95%	95%	95%	95%	95%	95%
Dry Density Ratio :	96.5%	97.5%	96.5%	98.0%	97.5%	99.5%
-						
Soil Particle Density (APD) t/m ³ :						
Soil Particle Density (APD) Date :						
Remarks :						
 <p>Note: The results contained in this report relate only to the items that were tested/sampled Accredited for Compliance with ISO/IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208</p>	APPROVED SIGNATORY  Samuel Bamford - Signatory					

Dry Density / Moisture Ratio Report

Client :	Shadforth			Report Number :	SR/PTP/09426 - 5/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	13/09/2022	
Project Name :	Everleigh Estate - Precinct 9.3 Earthworks - GL22/005			Test Request :	-	
Project Number :	PTP/09426			Page 2 of 3		
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.1.1,					
Sample Number :	S/142924	S/142925	S/142926	S/142927	S/142928	S/142929
Date Tested :	29/06/2022	29/06/2022	29/06/2022	29/06/2022	29/06/2022	29/06/2022
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
For use as :	General Fill	General Fill	General Fill	General Fill	General Fill	General Fill
Test / Layer Depths :	150 / -	150 / -	150 / -	150 / -	150 / -	150 / -
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b
Time :	06:41	06:41	06:41	06:41	06:41	06:41
Lot Number :	3164	3162	3159	3179	3190	3191
Location 1 :	E: 498991	E: 498992	E: 498982	E: 499027	E: 499105	E: 499121
Location 2 :	N: 6931813	N: 6931783	N: 6931759	N: 6931761	N: 6931758	N: 6931763
Location 3 :	Finish Level	Finish Level	Finish Level	Finish Level	Finish Level	Finish Level
Location 4 :	-	-	-	-	-	-
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	3%	3%	3%	8%	4%	8%
Oversize Dry :	3%	4%	3%	8%	5%	8%
Oversize Density - Dry (t/m ³) :	2.55	2.54	2.46	2.52	2.51	2.53
Assigned MDR (Yes/No) :	No	No	No	No	No	No
MDR Sample Number :	S/142924	S/142925	S/142926	S/142927	S/142928	S/142929
MDR Test Date :	30/06/2022	2/07/2022	30/06/2022	30/06/2022	30/06/2022	1/07/2022
Soil Description :	Sandy Gravelly Clay - Brown	Sandy Gravelly Clay - Brown	Sandy Gravelly Clay - Brown	Sandy Gravelly Clay - Brown	Sandy Gravelly Clay - Brown	Sandy Gravelly Clay - Brown
MDR Test Results						
MDD (t/m ³) :	2.06	2.10	2.08	1.95	1.96	1.95
OMC :	9.5%	8.0%	7.5%	10.0%	8.0%	7.0%
ADJ MDD (t/m ³) :	2.08	2.11	2.09	1.99	1.98	1.99
ADJ OMC :	9.5%	7.5%	7.5%	9.0%	8.0%	6.5%
Moisture Test Results :						
Field Moisture Content :	8.0%	7.5%	7.0%	8.5%	8.0%	7.5%
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC
Variation from OMC :	1.5% Dry of OMC	0.0% Dry of OMC	0.5% Dry of OMC	1.0% Dry of OMC	0.0% Wet of OMC	1.0% Wet of OMC
Relative Moisture Ratio (Q250) :	-	-	-	-	-	-
Moisture Ratio :	85.0%	97.5%	92.0%	91.0%	102.0%	115.0%
Density Test Results						
Field Dry Density (t/m ³) :	2.05	2.12	2.03	1.99	2.00	1.96
Density Specification :	95%	95%	95%	95%	95%	95%
Dry Density Ratio :	98.5%	100.5%	97.0%	100.0%	101.0%	98.5%
-						
Soil Particle Density (APD) t/m ³ :						
Soil Particle Density (APD) Date :						
Remarks :						
 <p>Note: The results contained in this report relate only to the item/s that were tested/sampled</p> <p>Accredited for Compliance with ISO/IEC 17025 - Testing</p> <p>Protest Engineering (Gold Coast) Accreditation Number - 19667</p> <p>Base Laboratory Site Number - 22838 - Gold Coast</p> <p>Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208</p>	APPROVED SIGNATORY  Samuel Bamford - Signatory					

Dry Density / Moisture Ratio Report

Client :	Shadforth					Report Number :	SR/PTP/09426 - 5/1
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD					Report Date :	13/09/2022
Project Name :	Everleigh Estate - Precinct 9.3 Earthworks - GL22/005					Test Request :	-
Project Number :	PTP/09426					Page 3 of 3	
Location :	Greenbank						
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.1.1,						
Sample Number :	S/142930	S/142931	S/142932	S/142933	S/142934		
Date Tested :	29/06/2022	29/06/2022	29/06/2022	29/06/2022	29/06/2022		
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite		
For use as :	General Fill	General Fill	General Fill	General Fill	General Fill		
Test / Layer Depths :	150 / -	150 / -	150 / -	150 / -	150 / -		
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b		
Time :	06:41	06:41	06:41	06:41	06:41		
Lot Number :	3192	3193	3176	3174	3134		
Location 1 :	E: 499132	E: 499142	E: 499036	E: 499060	E: 498973		
Location 2 :	N: 6931772	N: 6931779	N: 6931815	N: 6931845	N: 6931979		
Location 3 :	Finish Level	Finish Level	Finish Level	Finish Level	Finish Level		
Location 4 :	-	-	-	-	-		
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm		
Oversize Wet :	4%	4%	4%	8%	8%		
Oversize Dry :	5%	5%	5%	9%	8%		
Oversize Density - Dry (t/m ³) :	2.54	2.45	2.47	2.48	2.51		
Assigned MDR (Yes/No) :	No	No	No	No	No		
MDR Sample Number :	S/142930	S/142931	S/142932	S/142933	S/142934		
MDR Test Date :	1/07/2022	1/07/2022	30/06/2022	30/06/2022	1/07/2022		
Soil Description :	Sandy Gravelly Clay - Brown	Sandy Gravelly Clay - Brown	Sandy Gravelly Clay - Brown	Sandy Gravelly Clay - Brown	Sandy Gravelly Clay - Brown		
MDR Test Results							
MDD (t/m ³) :	2.01	2.14	2.10	2.05	2.10		
OMC :	9.0%	6.0%	13.0%	9.5%	8.0%		
ADJ MDD (t/m ³) :	2.03	2.15	2.11	2.08	2.13		
ADJ OMC :	8.5%	6.0%	12.5%	8.5%	7.0%		
Moisture Test Results :							
Field Moisture Content :	8.0%	6.0%	10.0%	8.5%	8.0%		
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC		
Variation from OMC :	0.5% Dry of OMC	0.0% Wet of OMC	2.0% Dry of OMC	0.0% Dry of OMC	0.5% Wet of OMC		
Relative Moisture Ratio (Q250) :	-	-	-	-	-		
Moisture Ratio :	94.0%	104.0%	82.0%	98.0%	108.5%		
Density Test Results							
Field Dry Density (t/m ³) :	1.99	2.11	2.01	2.03	2.03		
Density Specification :	95%	95%	95%	95%	95%		
Dry Density Ratio :	98.0%	98.0%	95.0%	97.5%	95.5%		
-							
Soil Particle Density (APD) t/m ³ :							
Soil Particle Density (APD) Date :							
Remarks :							
 <p>Note: The results contained in this report relate only to the item/s that were tested/sampled</p> <p>Accredited for Compliance with ISO/ IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast</p> <p>Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208</p>	APPROVED SIGNATORY						
	 Samuel Bamford - Signatory						

Dry Density / Moisture Ratio Report

Client :	Shadforth	Report Number :	SR/PTP/09426 - 6/1
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD	Report Date :	20/09/2022
Project Name :	Everleigh Estate - Precinct 9.3 Earthworks - GL22/005	Test Request :	-
Project Number :	PTP/09426	Page 1 of 2	
Location :	Greenbank		

Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.1.1,					
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Sample Number :	S/140981	S/140982	S/140983	S/140984	S/140985	S/140986
Date Tested :	7/06/2022	7/06/2022	7/06/2022	7/06/2022	7/06/2022	7/06/2022
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
For use as :	General Fill	General Fill	General Fill	General Fill	General Fill	General Fill
Test / Layer Depths :	150 / -	150 / -	150 / -	150 / -	150 / -	150 / -

Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b
Time :	08:21	08:29	08:35	08:42	08:48	08:54
Lot Number :	7229A	7229B	7229C	7229D	7229E	7229F
Location 1 :	E: 498876	E: 498890	E: 498901	E: 498919	E: 498956	E: 498956
Location 2 :	N: 6932137	N: 6932134	N: 6932130	N: 6932125	N: 6932127	N: 6932114
Location 3 :	Finished Level	Finished Level	Finished Level	Finished Level	Finished Level	Finished Level
Location 4 :	-	-	-	-	-	-

Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Override Wet :	13%	11%	14%	15%	13%	14%
Override Dry :	14%	11%	16%	15%	14%	15%
Override Density - Dry (t/m ³) :	2.36	2.37	2.39	2.35	2.36	2.41
Assigned MDR (Yes/No) :	No	No	No	No	No	No
MDR Sample Number :	S/140981	S/140982	S/140983	S/140984	S/140985	S/140986
MDR Test Date :	9/06/2022	8/06/2022	9/06/2022	9/06/2022	9/06/2022	9/06/2022
Soil Description :	Sandy Gravelly Clay	Sandy Gravelly Clay	Sandy Gravelly Clay	Sandy Gravelly Clay	Sandy Gravelly Clay	Sandy Gravelly Clay

<i>MDR Test Results</i>						
MDD (t/m ³) :	1.91	1.93	1.88	1.91	1.91	1.96
OMC :	11.5%	11.0%	14.0%	10.5%	9.5%	10.5%
ADJ MDD (t/m ³) :	1.96	1.97	1.94	1.97	1.97	2.01
ADJ OMC :	9.5%	10.0%	11.5%	9.0%	8.0%	9.0%


<i>Moisture Test Results :</i>						
Field Moisture Content :	9.5%	9.0%	10.0%	7.5%	8.0%	8.5%
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC
Variation from OMC :	0.5% Dry of OMC	1.0% Dry of OMC	1.5% Dry of OMC	1.5% Dry of OMC	0.0% Wet of OMC	0.5% Dry of OMC
Relative Moisture Ratio (Q250) :	-	-	-	-	-	-
Moisture Ratio :	96.5%	90.0%	86.0%	83.5%	101.5%	94.5%

<i>Density Test Results</i>						
Field Dry Density (t/m ³) :	1.92	1.94	1.93	1.96	1.97	2.03
Density Specification :	95%	95%	95%	95%	95%	95%
Dry Density Ratio :	98.0%	98.0%	99.0%	99.5%	100.5%	100.5%



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Soil Particle Density (APD) t/m ³ :						
Soil Particle Density (APD) Date :						
Remarks :						

 <p>WORLD RECOGNISED ACCREDITATION</p>	<p>Note: The results contained in this report relate only to the item/s that were tested/sampled</p> <p>Accredited for Compliance with ISO/ IEC 17025 - Testing</p> <p>Protest Engineering (Gold Coast) Accreditation Number - 19667</p> <p>Base Laboratory Site Number - 22838 - Gold Coast</p> <p>Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208</p>	<p>APPROVED SIGNATORY</p> <p><i>S.M.</i></p> <p>Samuel Bamford - Signatory</p>
	<p>Document Number : RF1</p>	<p>Date : 12/04/2022</p>

Dry Density / Moisture Ratio Report

Client :	Shadforth				Report Number :	SR/PTP/09426 - 6/1
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD				Report Date :	20/09/2022
Project Name :	Everleigh Estate - Precinct 9.3 Earthworks - GL22/005				Test Request :	-
Project Number :	PTP/09426				Page 2 of 2	
Location :	Greenbank					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.1.1,					
Sample Number :	S/140987	S/140988	S/140989	S/140990		
Date Tested :	7/06/2022	7/06/2022	7/06/2022	7/06/2022		
Material Source :	Onsite	Onsite	Onsite	Onsite		
For use as :	General Fill	General Fill	General Fill	General Fill		
Test / Layer Depths :	150 / -	150 / -	150 / -	150 / -		
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b		
Time :	08:59	09:06	09:12	09:23		
Lot Number :	7229G	7229H	7229I	7229J		
Location 1 :	E: 498957	E: 498959	E: 498991	E: 498980		
Location 2 :	N: 6932103	N: 6931961	N: 6931956	N: 6931936		
Location 3 :	Finished Level	Finished Level	Finished Level	Finished Level		
Location 4 :	-	-	-	-		
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm		
Enlarge Wet :	8%	13%	14%	15%		
Enlarge Dry :	9%	14%	15%	16%		
Enlarge Density - Dry (t/m ³) :	2.37	2.39	2.37	2.36		
Assigned MDR (Yes/No) :	No	No	No	No		
MDR Sample Number :	S/140987	S/140988	S/140989	S/140990		
MDR Test Date :	8/06/2022	8/06/2022	10/06/2022	10/06/2022		
Soil Description :	Sandy Gravelly Clay	Sandy Gravelly Clay	Sandy Gravelly Clay	Sandy Gravelly Clay		
<i>MDR Test Results</i>						
MDD (t/m ³) :	1.91	1.90	1.91	1.89		
OMC :	11.0%	11.5%	13.5%	11.0%		
ADJ MDD (t/m ³) :	1.95	1.96	1.97	1.95		
ADJ OMC :	10.0%	10.0%	11.5%	9.0%		
<i>Moisture Test Results :</i>						
Field Moisture Content :	9.5%	9.5%	10.0%	10.0%		
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC		
Variation from OMC :	0.5% Dry of OMC	0.5% Dry of OMC	1.5% Dry of OMC	1.0% Wet of OMC		
Relative Moisture Ratio (Q250) :	-	-	-	-		
Moisture Ratio :	93.5%	96.5%	89.0%	109.0%		
<i>Density Test Results</i>						
Field Dry Density (t/m ³) :	1.94	1.90	1.91	1.90		
Density Specification :	95%	95%	95%	95%		
Dry Density Ratio :	99.5%	97.0%	97.0%	97.5%		
Soil Particle Density (APD) t/m ³ :						
Soil Particle Density (APD) Date :						
Remarks :						
 <p>Note: The results contained in this report relate only to the item/s that were tested/sampled Accredited for Compliance with ISO/ IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208</p>				APPROVED SIGNATORY  Samuel Bamford - Signatory		