

Shadforths Civil Contractors Pty Ltd
99 Sandalwood Lane
Forest Glen QLD

Project 672798.00
25 March 2019
R.002.Rev1
JB:AJM

Attention: Josh Burkin

Email: josh.burkin@shadcivil.com.au

Dear Sirs

Level 1 Geotechnical Inspection and Testing
Cusack Lane Development Phase 1
Cusack Lane, Jimboomba

1. Introduction

This report presents the results of the inspection and testing of earthworks for the allotment filling at Cusack Lane Development Phase 1, Cusack Lane, Jimboomba. The fill was placed and tested during the period 9 November 2017 to 10 April 2018.

The scope of testing and inspections provided by Douglas Partners Pty Ltd (DP) comprised 'Level 1' geotechnical inspection and testing as defined in AS 3798:2007 "Guidelines on Earthworks for Commercial and Residential Developments", and as required by the project specification.

This report must be read in conjunction with the attached notes entitled 'About This Inspection Report' and any other attached information.

2. Earthworks Activities

The extent of filling placed at the development, as covered by this report, is shown within the test locations noted in the Insitu Dry Density Test Results and test locations plan, attached to this report.

The specification shown on earthworks plan No. 5544 ENG BE1A 004 prepared by Gassman Development Perspectives Pty Ltd and supplied by Shadforths Civil Contractors Pty Ltd, required compaction to a minimum of 95% Standard dry density in accordance with the requirements of AS 3798:2007 "Guidelines on Earthworks for Commercial and Residential Developments". No moisture specification was noted on the supplied drawings.

The bulk earthworks operations comprised of stripping and grubbing of the existing surface, removal of pockets of unsuitable soils within areas of filling, then placement and compaction of cut to fill won from onsite to bring the ground level up to design surface level for the required works

The filling materials predominantly comprised sandy silty clays won from onsite cuts.

Filling materials were placed and spread by several scrapers and an 825 Compactor. Compaction was achieved using the 825 compactor and a pad foot roller, with loose layer thickness typically ranging from approximately 250 mm to 300 mm.

Inspections were made by a senior geotechnician from DP, who was present during the placement of filling. Following the compaction of each layer, where possible, the layer was tested to assess if the specified minimum dry density ratio had been achieved. All layers, including where density testing was not carried out, were proof rolled with a fully loaded water truck under the observation of the senior technician.

Testing was carried using the nuclear gauge method outlined in test method AS 1289 5.8.1. The relative compaction was determined using the Hilf Density Ratio method outlined in test method AS 1289 5.7.1. A total of 279 density tests were carried out during the earthworks. A summary of the test results is presented in Table 1.

Table 1: Summary of Density Testing

Item	Compaction	Moisture Variation
Specification	95% Std	N/A
No. of tests	279	279
Range	95.0 to 103.5% Std	2.0% Wet to 2.0% Dry of OMC
No of tests outside specification	0	0
Mean	98.9% Std	1.2% Dry of OMC

Note: OMC – Optimum Moisture Content for Standard compaction

3. Comments

DP undertook inspection and testing of earthworks in accordance with a 'Level 1' standard as defined in AS 3798:2007 *"Guideline on Earthworks for Commercial and Residential Developments"*.

It is considered that the placement and compaction of the filling placed by Shadforths Civil Contractors during the period 9 November 2017 to 10 April 2018 has been carried out in accordance with the requirements of the specification. DP does not undertake to guarantee the work of the contractor nor relieve their responsibility to produce a complete product conforming to the requirements of the specification.

For building on the controlled fill areas, consideration should be given by the user to the following:

- Possible disruption of the compacted filling by the installation of services;
- The possibility that additional filling has been placed before and after the dates of field density tests or at times when DP has not been notified that filling operations are in progress;
- Adequate containment of the filled areas;
- The suitability of the filled land to support structure of various types without excessive deflection, in particular, the shrink-swell properties of the filling and natural soils must be considered in foundation/footing slab design in detailing future structure; and
- Variation in filling depth.

4. Limitations

Douglas Partners Pty Ltd (DP) has prepared this report for this project at Cusack Lane, Jimboomba in accordance with DP's proposal GLD170096 dated 8 May 2017. The work was carried out under DP's Conditions of Engagement. This report is provided for the exclusive use of Shadforths Civil Contractors Pty Ltd for this project only and for the purposes as described in the report. It should not be used by or relied upon for other projects or purposes on the same or other site or by a third party. Any party so relying upon this report beyond its exclusive use and purpose as stated above, and without the express written consent of DP, does so entirely at its own risk and without recourse to DP for any loss or damage. In preparing this report DP has necessarily relied upon information provided by the client and/or their agents.

The results provided in the report are indicative of the sub-surface conditions on the site only at the specific sampling and/or testing locations, and then only to the depths investigated and at the time the work was carried out. Sub-surface conditions can change abruptly due to variable geological processes and also as a result of human influences. Such changes may occur after DP's field testing has been completed.

DP's advice is based upon the conditions encountered during this investigation. The accuracy of the advice provided by DP in this report may be affected by undetected variations in ground conditions across the site between and beyond the sampling and/or testing locations. The advice may also be limited by budget constraints imposed by others or by site accessibility.

This report must be read in conjunction with all of the attached and should be kept in its entirety without separation of individual pages or sections. DP cannot be held responsible for interpretations or conclusions made by others unless they are supported by an expressed statement, interpretation, outcome or conclusion stated in this report.

This report, or sections from this report, should not be used as part of a specification for a project, without review and agreement by DP. This is because this report has been written as advice and opinion rather than instructions for construction.

Please contact the undersigned if you have any questions on this matter.

Yours faithfully
Douglas Partners Pty Ltd



Chad Whatley
Laboratory Manager

Reviewed by



Andrew Middleton
Principal

Attachments: About this Report
 Laboratory Test Results
 Test Location Plan

About this Inspection Report

Douglas Partners



Introduction

These notes are provided to amplify DP's inspection report in regard to the limitations of carrying out inspection work. Not all notes are necessarily relevant to this report.

Standards

This inspection report has been prepared by qualified personnel to current engineering standards of interpretation and analysis.

Copyright and Limits of Use

This inspection report is the property of DP and is provided for the exclusive use of the client for the specific project and purpose as described in the report. It should not be used by a third party for any purpose other than to confirm that the construction works addressed in the report have been inspected as described. Use of the inspection report is limited in accordance with the Conditions of Engagement for the commission.

DP does not undertake to guarantee the works of the contractors or relieve them of their responsibility to produce a completed product conforming to the design.

Reports

This inspection report may include advice or opinion that is based on engineering and/or geological interpretation, information provided by the client or the client's agent, and information gained from:

- an investigation report for the project (if available to DP);
- inspection of the work, exposed ground conditions, excavation spoil and performance of excavating equipment while DP was on site;
- investigation and testing that was carried out during the site inspection;
- anecdotal information provided by authoritative site personnel; and

- DP's experience and knowledge of local geology.

Such information may be limited by the frequency of any inspection or testing that was able to be practically carried out, including possible site or cost constraints imposed by the client/contractor(s). For these reasons, the reliability of this inspection report is limited by the scope of information on which it relies.

Every care is taken with the inspection report as it relates to interpretation of subsurface conditions and any recommendations or suggestions for construction or design. However, DP cannot anticipate or assume responsibility for:

- unexpected variations in subsurface conditions that are not evident from the inspection; and
- the actions of contractors responding to commercial pressures.

Should these issues occur, then additional advice should be sought from DP and, if required, amendments made.

This inspection report must be read in conjunction with any attached information. This inspection report should be kept in its entirety without separation of individual pages or sections. DP cannot be held responsible for interpretations or conclusions from review by others of this inspection report or test data, which are not otherwise supported by an expressed statement, interpretation, outcome or conclusion stated in this inspection report.

Compaction Control Test Report



Approved Signatory: Joshua Baker

Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-3
Issue Number: 1
Date Issued: 11/11/2017
Client: Shadforth's Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1051
Date Sampled: 09/11/2017
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	17-1051A	17-1051B	17-1051C	17-1051D	17-1051E
Test Number	3	4	5	6	7
Date Tested	09/11/2017	09/11/2017	09/11/2017	09/11/2017	09/11/2017
Time Tested	10:00	10:05	10:10	10:15	10:20
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500792	500815	500770	500782	500721
Northing	6922563	6922563	6922581	6922604	6922605
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 29.95	RL: 29.55	RL: 29.25	RL: 29.00	RL: 30.05
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	2.04	1.94	2.06	2.03	1.92
Field Moisture Content %	11.1	12.3	9.1	10.4	12.2
Field Dry Density (FDD) t/m ³	1.83	1.73	1.89	1.84	1.71
Peak Converted Wet Density t/m ³	2.05	1.99	2.13	2.06	1.98
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	1.5	0.0	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	99.5	97.5	97.0	98.5	97.0
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-3
Issue Number: 1
Date Issued: 11/11/2017
Client: Shadforth's Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1051
Date Sampled: 09/11/2017
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	17-1051F	17-1051G	17-1051H	17-1051I
Test Number	8	9	10	11
Date Tested	09/11/2017	09/11/2017	09/11/2017	09/11/2017
Time Tested	10:25	13:30	13:35	13:40
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500703	500688	500676	500669
Northing	6922626	6922623	6922653	6922679
Elevation (m)	**	**	**	**
Layer / Reduced Level	RL: 30.00	RL: 30.30	RL: 29.75	RL: 29.20
Thickness of Layer (mm)	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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	0.0	0.0
Field Wet Density (FWD) t/m ³	2.05	1.99	2.02	2.02
Field Moisture Content %	9.3	9.9	9.1	8.7
Field Dry Density (FDD) t/m ³	1.88	1.81	1.85	1.86
Peak Converted Wet Density t/m ³	2.13	1.98	2.00	2.05
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	0.0	2.0	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	96.5	100.5	101.0	99.0
Compaction Method	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



Douglas Partners Pty Ltd

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Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Chad Whatley

Senior Technician

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-4
Issue Number: 1
Date Issued: 17/11/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1061
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	17-1061A	17-1061B	17-1061C	17-1061D	17-1061E
Test Number	12	13	14	15	16
Date Tested	10/11/2017	10/11/2017	10/11/2017	10/11/2017	10/11/2017
Time Tested	08:00	08:10	08:20	08:30	08:40
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Easting	500703	500801	500834	500828	500769
Northing	6922636	6922574	6922562	6922551	6922551
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 30.65	RL: 30.15	RL: 29.80	RL: 30.65	RL: 30.50
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.98	1.94	2.00	1.95	1.98
Field Moisture Content %	9.9	8.8	10.9	9.2	9.2
Field Dry Density (FDD) t/m ³	1.80	1.78	1.80	1.78	1.81
Peak Converted Wet Density t/m ³	1.99	1.91	2.01	1.96	1.98
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	1.5	2.0	0.5	0.0	1.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	99.5	101.5	99.5	99.5	100.0
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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Approved Signatory: Chad Whatley

Senior Technician

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-4
Issue Number: 1
Date Issued: 17/11/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1061
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1	
Sample Number	17-1061F
Test Number	17
Date Tested	10/11/2017
Time Tested	08:50
Test Request #/Location	Allotment Fill
Easting	500703
Northing	6922592
Elevation (m)	**
Layer / Reduced Level	RL: 30.90
Thickness of Layer (mm)	300
Soil Description	Silty Sandy Clay
Test Depth (mm)	150
Sieve used to determine oversize (mm)	19.0
Percentage of Wet Oversize (%)	0.0
Field Wet Density (FWD) t/m ³	1.96
Field Moisture Content %	8.7
Field Dry Density (FDD) t/m ³	1.80
Peak Converted Wet Density t/m ³	1.96
Adjusted Peak Converted Wet Density t/m ³	**
Moisture Variation (Wv) %	0.0
Adjusted Moisture Variation %	**
Hilf Density Ratio (%)	100.5
Compaction Method	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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Approved Signatory: Chad Whatley

Senior Technician

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-5
Issue Number: 1
Date Issued: 21/11/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1078
Date Sampled: 15/11/2017
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	17-1078A	17-1078B	17-1078C	17-1078D	17-1078E
Test Number	50	51	52	53	54
Date Tested	15/11/2017	15/11/2017	15/11/2017	15/11/2017	15/11/2017
Time Tested	10:00	10:05	10:10	10:15	10:20
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Easting	500774	500786	500801	500780	500858
Northing	6922526	6922511	6922492	6922499	6922473
Elevation (m)	RL: 31.60	RL: 31.65	RL: 31.80	RL: 32.85	RL: 32.60
Layer / Reduced Level	**	**	**	**	**
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.89	1.98	1.90	1.90	1.98
Field Moisture Content %	13.2	13.1	10.6	13.7	13.8
Field Dry Density (FDD) t/m ³	1.67	1.75	1.72	1.67	1.74
Peak Converted Wet Density t/m ³	1.89	1.98	1.93	1.93	1.98
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.0	1.5	0.5	0.5	1.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	99.5	100.0	98.0	98.5	100.0
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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Approved Signatory: Chad Whatley

Senior Technician

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-5
Issue Number: 1
Date Issued: 21/11/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1078
Date Sampled: 15/11/2017
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	17-1078F	17-1078G	17-1078H	17-1078I	17-1078J
Test Number	55	56	57	58	59
Date Tested	15/11/2017	15/11/2017	15/11/2017	15/11/2017	15/11/2017
Time Tested	10:25	10:30	10:35	10:40	10:45
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Easting	500832	500809	500781	500747	500723
Northing	6922499	6922515	6922535	6922546	6922572
Elevation (m)	RL: 30.95	RL: 31.00	RL: 30.90	RL: 30.85	RL: 30.75
Layer / Reduced Level	**	**	**	**	**
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.98	1.97	1.90	1.99	1.91
Field Moisture Content %	9.3	12.9	11.9	10.3	11.1
Field Dry Density (FDD) t/m ³	1.81	1.74	1.70	1.80	1.72
Peak Converted Wet Density t/m ³	1.98	1.98	1.93	2.02	1.93
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	1.5	1.5	2.0	0.0	0.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	100.0	99.5	98.5	98.5	99.0
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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Approved Signatory: Chad Whatley

Senior Technician

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-6
Issue Number: 1
Date Issued: 22/11/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1062
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	17-1062A	17-1062B	17-1062C	17-1062D	17-1062E
Test Number	18	19	20	21	22
Date Tested	13/11/2017	13/11/2017	13/11/2017	13/11/2017	13/11/2017
Time Tested	10:00	10:05	10:10	10:15	10:20
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Easting	500846	500842	500801	500789	500781
Northing	6922544	6922516	6922531	6922566	6922599
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 31.65	RL: 31.50	RL: 31.45	RL: 31.30	RL: 31.60
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.94	1.91	1.89	1.95	1.92
Field Moisture Content %	9.5	12.3	10.4	9.0	12.0
Field Dry Density (FDD) t/m ³	1.77	1.70	1.71	1.79	1.71
Peak Converted Wet Density t/m ³	1.96	1.88	1.89	1.96	1.90
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	1.5	0.0	1.0	-2.0	0.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	99.0	101.5	100.0	99.5	101.5
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



Douglas Partners Pty Ltd

Gold Coast Laboratory

Unit 7/ 482, Scottsdale Drive Varsity Lakes QLD 4227

Phone: (07) 5568 8900

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Email: steven.whatley@douglaspartners.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Chad Whatley

Senior Technician

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-6
Issue Number: 1
Date Issued: 22/11/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1062
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	17-1062F	17-1062G	17-1062H	17-1062I	17-1062J
Test Number	23	24	25	26	27
Date Tested	13/11/2017	13/11/2017	13/11/2017	13/11/2017	13/11/2017
Time Tested	10:25	10:30	10:35	10:40	10:45
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Easting	500757	500714	500707	500672	500683
Northing	6922602	6922602	6922591	6922624	6922662
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 31.60	RL: 31.25	RL: 31.10	RL: 31.15	RL: 31.00
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.90	1.96	1.91	1.93	1.92
Field Moisture Content %	10.2	9.6	9.5	13.9	9.5
Field Dry Density (FDD) t/m ³	1.72	1.78	1.74	1.70	1.75
Peak Converted Wet Density t/m ³	1.93	1.96	1.86	1.97	1.91
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	0.5	2.0	0.0	0.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	98.0	99.5	102.5	98.0	100.0
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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Report Number: 672798.00-6
Issue Number: 1
Date Issued: 22/11/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1062
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	17-1062K	17-1062L	17-1062M	17-1062N	17-1062O
Test Number	28	29	30	31	32
Date Tested	13/11/2017	13/11/2017	13/11/2017	13/11/2017	13/11/2017
Time Tested	13:30	13:35	13:40	13:45	13:50
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Easting	500725	500721	500708	500723	500688
Northing	6922720	6922863	6922836	6922810	6922737
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 31.05	RL: 29.55	RL: 29.40	RL: 29.70	RL: 29.80
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.97	2.00	1.97	1.98	1.96
Field Moisture Content %	15.3	11.9	13.6	11.5	13.9
Field Dry Density (FDD) t/m ³	1.71	1.78	1.73	1.78	1.72
Peak Converted Wet Density t/m ³	2.00	2.03	1.98	1.93	1.94
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.5	-0.5	-0.5	-0.5	-1.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	98.5	98.5	99.5	102.5	101.0
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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NATA Accredited Laboratory Number: 828

Report Number: 672798.00-6
Issue Number: 1
Date Issued: 22/11/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1062
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1	
Sample Number	17-1062P
Test Number	33
Date Tested	13/11/2017
Time Tested	13:55
Test Request #/Location	Allotment Fill
Easting	500716
Northing	6922688
Elevation (m)	**
Layer / Reduced Level	RL: 30.00
Thickness of Layer (mm)	300
Soil Description	Silty Sandy Clay
Test Depth (mm)	150
Sieve used to determine oversize (mm)	19.0
Percentage of Wet Oversize (%)	0.0
Field Wet Density (FWD) t/m ³	1.97
Field Moisture Content %	11.1
Field Dry Density (FDD) t/m ³	1.77
Peak Converted Wet Density t/m ³	1.99
Adjusted Peak Converted Wet Density t/m ³	**
Moisture Variation (Wv) %	2.0
Adjusted Moisture Variation %	**
Hilf Density Ratio (%)	99.0
Compaction Method	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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Report Number: 672798.00-7
Issue Number: 1
Date Issued: 27/11/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1076
Date Sampled: 14/11/2017
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted



Approved Signatory: Chad Whatley

Senior Technician

NATA Accredited Laboratory Number: 828

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	17-1076A	17-1076B	17-1076C	17-1076D	17-1076E
Test Number	34	35	36	37	38
Date Tested	14/11/2017	14/11/2017	14/11/2017	14/11/2017	14/11/2017
Time Tested	10:00	10:05	10:10	10:15	10:20
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Easting	500793	500819	500851	500878	500868
Northing	6922620	6922616	6922595	6922583	6922562
Elevation (m)	RL: 29.05	RL: 29.15	RL: 29.45	RL: 29.90	RL: 31.15
Layer / Reduced Level	**	**	**	**	**
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.90	1.89	1.89	1.91	1.88
Field Moisture Content %	9.7	11.7	11.9	9.7	11.8
Field Dry Density (FDD) t/m ³	1.73	1.70	1.69	1.74	1.68
Peak Converted Wet Density t/m ³	1.88	1.91	1.91	1.89	1.87
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.5	-0.5	-1.0	0.5	0.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	101.0	99.0	99.0	101.5	101.0
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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NATA Accredited Laboratory Number: 828

Report Number: 672798.00-7
Issue Number: 1
Date Issued: 27/11/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1076
Date Sampled: 14/11/2017
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	17-1076F	17-1076G	17-1076H	17-1076I	17-1076J
Test Number	39	40	41	42	43
Date Tested	14/11/2017	14/11/2017	14/11/2017	14/11/2017	14/11/2017
Time Tested	10:25	10:30	10:35	10:40	10:45
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Easting	500852	500801	500770	500893	5000866
Northing	6922567	6922587	6922610	6922550	6922560
Elevation (m)	RL: 30.90	RL: 30.80	RL: 30.65	RL: 31.55	RL: 30.90
Layer / Reduced Level	**	**	**	**	**
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.88	1.92	1.89	1.89	1.89
Field Moisture Content %	10.0	10.9	12.4	11.5	9.5
Field Dry Density (FDD) t/m ³	1.71	1.73	1.68	1.69	1.72
Peak Converted Wet Density t/m ³	1.91	1.90	1.86	1.86	1.87
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.0	-0.5	1.0	0.5	0.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	98.5	101.0	101.5	101.0	101.0
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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NATA Accredited Laboratory Number: 828

Report Number: 672798.00-7
Issue Number: 1
Date Issued: 27/11/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1076
Date Sampled: 14/11/2017
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	17-1076K	17-1076L	17-1076M	17-1076N	17-1076O
Test Number	44	45	46	47	48
Date Tested	14/11/2017	14/11/2017	14/11/2017	14/11/2017	14/11/2017
Time Tested	13:30	13:35	13:40	13:45	13:50
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Easting	500784	500800	500821	500842	500871
Northing	6922635	6922610	6922613	6922592	6922592
Elevation (m)	RL: 29.45	RL: 29.55	RL: 29.70	RL: 29.95	RL: 30.95
Layer / Reduced Level	**	**	**	**	**
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	9.1	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.88	1.87	1.91	1.87	1.92
Field Moisture Content %	9.8	8.5	9.9	8.6	9.3
Field Dry Density (FDD) t/m ³	1.72	1.72	1.74	1.72	1.76
Peak Converted Wet Density t/m ³	**	1.88	1.88	1.89	1.88
Adjusted Peak Converted Wet Density t/m ³	1.92	**	**	**	**
Moisture Variation (Wv) %	**	0.5	0.5	0.0	1.0
Adjusted Moisture Variation %	0.5	**	**	**	**
Hilf Density Ratio (%)	98.5	99.5	101.5	99.0	102.0
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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NATA Accredited Laboratory Number: 828

Report Number: 672798.00-7
Issue Number: 1
Date Issued: 27/11/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1076
Date Sampled: 14/11/2017
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1	
Sample Number	17-1076P
Test Number	49
Date Tested	14/11/2017
Time Tested	13:55
Test Request #/Location	Allotment Fill
Easting	500891
Northing	6922575
Elevation (m)	RL: 31.15
Layer / Reduced Level	**
Thickness of Layer (mm)	300
Soil Description	Silty Sandy Clay
Test Depth (mm)	150
Sieve used to determine oversize (mm)	19.0
Percentage of Wet Oversize (%)	0.0
Field Wet Density (FWD) t/m ³	1.90
Field Moisture Content %	8.6
Field Dry Density (FDD) t/m ³	1.75
Peak Converted Wet Density t/m ³	1.92
Adjusted Peak Converted Wet Density t/m ³	**
Moisture Variation (Wv) %	1.0
Adjusted Moisture Variation %	**
Hilf Density Ratio (%)	99.0
Compaction Method	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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NATA Accredited Laboratory Number: 828

Report Number: 672798.00-8
Issue Number: 1
Date Issued: 30/11/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1116
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	17-1116A	17-1116B	17-1116C	17-1116D	17-1116E
Test Number	66	67	68	69	70
Date Tested	24/11/2017	24/11/2017	24/11/2017	24/11/2017	24/11/2017
Time Tested	13:30	13:35	13:40	13:45	13:50
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Easting	5007312	500726	500710	500747	500757
Northing	6922817	6922872	6922907	6922888	6922842
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 29.80	RL: 29.70	RL: 29.90	RL: 29.55	RL: 29.60
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	2.00	1.96	2.01	1.94	1.99
Field Moisture Content %	12.1	11.7	13.3	11.3	12.7
Field Dry Density (FDD) t/m ³	1.79	1.75	1.78	1.75	1.77
Peak Converted Wet Density t/m ³	2.05	2.03	2.04	2.05	2.06
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	1.0	2.0	2.0	0.5	0.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	97.5	96.0	98.5	95.0	96.5
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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Report Number: 672798.00-8
Issue Number: 1
Date Issued: 30/11/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1116
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1	
Sample Number	17-1116F
Test Number	71
Date Tested	24/11/2017
Time Tested	13:55
Test Request #/Location	Allotment Fill
Easting	5006741
Northing	6922785
Elevation (m)	**
Layer / Reduced Level	RL: 29.20
Thickness of Layer (mm)	300
Soil Description	Silty Sandy Clay
Test Depth (mm)	150
Sieve used to determine oversize (mm)	19.0
Percentage of Wet Oversize (%)	0.0
Field Wet Density (FWD) t/m ³	1.97
Field Moisture Content %	12.5
Field Dry Density (FDD) t/m ³	1.75
Peak Converted Wet Density t/m ³	2.03
Adjusted Peak Converted Wet Density t/m ³	**
Moisture Variation (Wv) %	2.0
Adjusted Moisture Variation %	**
Hilf Density Ratio (%)	97.0
Compaction Method	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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NATA Accredited Laboratory Number: 828

Report Number: 672798.00-9
Issue Number: 1
Date Issued: 30/11/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1108
Date Sampled: 23/11/2017
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	17-1108A	17-1108B	17-1108C	17-1108D	17-1108E
Test Number	60	61	62	63	64
Date Tested	23/11/2017	23/11/2017	23/11/2017	23/11/2017	23/11/2017
Time Tested	10:30	10:35	10:40	13:10	13:15
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Easting	500728	500713	500702	500736	500745
Northing	6922756	6922829	6922883	6922876	6922785
Elevation (m)	RL: 28.83	RL: 28.72	RL: 28.47	RL: 29.53	RL: 29.61
Layer / Reduced Level	**	**	**	**	**
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Sandy Clay m. yellow	Sandy Clay m. yellow	Sandy Clay m. yellow	Sandy Clay m. yellow	Sandy Clay m. yellow
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	2.13	2.10	2.12	2.12	2.07
Field Moisture Content %	11.8	12.0	12.4	12.5	12.4
Field Dry Density (FDD) t/m ³	1.91	1.87	1.88	1.88	1.84
Peak Converted Wet Density t/m ³	2.07	2.10	2.12	2.14	2.13
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	1.5	1.5	0.5	0.5	0.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	103.0	99.5	100.0	99.0	97.0
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

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

Compaction Control Test Report



Douglas Partners Pty Ltd

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Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Chad Whatley

Senior Technician

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-9
Issue Number: 1
Date Issued: 30/11/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1108
Date Sampled: 23/11/2017
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1	
Sample Number	17-1108F
Test Number	65
Date Tested	23/11/2017
Time Tested	13:20
Test Request #/Location	Allotment Fill
Easting	500742
Northing	6922827
Elevation (m)	RL: 29.57
Layer / Reduced Level	**
Thickness of Layer (mm)	300
Soil Description	Sandy Clay m. yellow
Test Depth (mm)	150
Sieve used to determine oversize (mm)	19.0
Percentage of Wet Oversize (%)	0.0
Field Wet Density (FWD) t/m ³	2.10
Field Moisture Content %	12.4
Field Dry Density (FDD) t/m ³	1.87
Peak Converted Wet Density t/m ³	2.12
Adjusted Peak Converted Wet Density t/m ³	**
Moisture Variation (Wv) %	0.5
Adjusted Moisture Variation %	**
Hilf Density Ratio (%)	99.0
Compaction Method	Standard

Moisture Variation Note:

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

Compaction Control Test Report



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Approved Signatory: Chad Whatley

Senior Technician

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-11
Issue Number: 1
Date Issued: 04/12/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1126
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	17-1126A	17-1126B	17-1126C	17-1126D	17-1126E
Test Number	82	83	84	85	86
Date Tested	28/11/2017	28/11/2017	28/11/2017	28/11/2017	28/11/2017
Time Tested	10:00	10:05	10:10	10:15	10:20
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Easting	500691	500686	500680	500679	500714
Northing	6922900	6922919	6922897	6922883	6922905
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 29.55	RL: 29.75	RL: 29.80	RL: 29.95	RL: 30.15
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.97	1.94	2.02	1.94	1.96
Field Moisture Content %	11.3	10.0	11.7	9.8	11.4
Field Dry Density (FDD) t/m ³	1.77	1.76	1.81	1.77	1.76
Peak Converted Wet Density t/m ³	2.03	1.99	2.03	2.01	2.00
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	-0.5	0.5	-0.5	0.0	-1.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	97.0	97.5	99.5	96.5	98.0
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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Approved Signatory: Chad Whatley

Senior Technician

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-11
Issue Number: 1
Date Issued: 04/12/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1126
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	17-1126F	17-1126G	17-1126H	17-1126I	17-1126J
Test Number	87	88	89	90	91
Date Tested	28/11/2017	28/11/2017	28/11/2017	28/11/2017	28/11/2017
Time Tested	10:25	13:30	13:35	13:40	13:45
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Easting	500728	500729	500733	500731	500707
Northing	6922888	6922861	6922836	6922806	6922783
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 30.20	RL: 30.25	RL: 30.35	RL: 30.70	RL: 30.95
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	2.01	2.05	1.97	2.00	1.94
Field Moisture Content %	12.0	12.1	10.8	10.8	10.6
Field Dry Density (FDD) t/m ³	1.79	1.83	1.77	1.80	1.75
Peak Converted Wet Density t/m ³	2.05	2.13	2.07	2.10	1.97
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	-1.0	0.0	1.5	0.5	1.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	98.0	96.0	95.0	95.5	98.0
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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Senior Technician

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-11
Issue Number: 1
Date Issued: 04/12/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1126
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1		
Sample Number	17-1126K	17-1126L
Test Number	92	93
Date Tested	28/11/2017	28/11/2017
Time Tested	13:50	13:55
Test Request #/Location	Allotment Fill	Allotment Fill
Easting	500722	500727
Northing	6922815	6922866
Elevation (m)	**	**
Layer / Reduced Level	RL: 30.10	RL: 30.45
Thickness of Layer (mm)	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay
Test Depth (mm)	150	150
Sieve used to determine oversize (mm)	19.0	19.0
Percentage of Wet Oversize (%)	0.0	0.0
Field Wet Density (FWD) t/m ³	2.04	2.03
Field Moisture Content %	11.7	12.6
Field Dry Density (FDD) t/m ³	1.82	1.80
Peak Converted Wet Density t/m ³	2.05	2.06
Adjusted Peak Converted Wet Density t/m ³	**	**
Moisture Variation (Wv) %	-2.0	-1.5
Adjusted Moisture Variation %	**	**
Hilf Density Ratio (%)	99.0	98.5
Compaction Method	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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Approved Signatory: Chad Whatley

Senior Technician

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-10
Issue Number: 1
Date Issued: 04/12/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1121
Date Sampled: 27/11/2017
Sampling Method: AS1289 1.2.1 6.4 (a) - Sampling from layers in earthworks or pavement - uncompacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	17-1121A	17-1121B	17-1121C	17-1121D	17-1121E
Test Number	72	73	74	75	76
Date Tested	27/11/2017	27/11/2017	27/11/2017	27/11/2017	27/11/2017
Time Tested	10:00	10:05	10:10	10:15	13:30
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Easting	500695	500680	500711	500698	500682
Northing	6922894	6922931	6922885	6922869	6922868
Elevation (m)	RL: 29.75	RL: 29.20	RL: 29.30	RL: 29.35	RL: 29.15
Layer / Reduced Level	**	**	**	**	**
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.93	1.94	1.95	1.98	1.96
Field Moisture Content %	12.0	10.3	10.6	10.2	11.5
Field Dry Density (FDD) t/m ³	1.73	1.76	1.77	1.80	1.75
Peak Converted Wet Density t/m ³	2.00	2.03	2.03	2.02	2.00
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.5	0.0	0.5	-0.5	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	96.5	96.0	96.5	98.0	97.5
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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Report Number: 672798.00-10
Issue Number: 1
Date Issued: 04/12/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1121
Date Sampled: 27/11/2017
Sampling Method: AS1289 1.2.1 6.4 (a) - Sampling from layers in earthworks or pavement - uncompacted



Approved Signatory: Chad Whatley

Senior Technician

NATA Accredited Laboratory Number: 828

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	17-1121F	17-1121G	17-1121H	17-1121I	17-1121J
Test Number	77	78	79	80	81
Date Tested	27/11/2017	27/11/2017	27/11/2017	27/11/2017	27/11/2017
Time Tested	13:35	13:40	13:45	13:50	13:55
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Easting	500710	500668	500721	500707	500727
Northing	6922848	6922825	6922834	6922821	6922801
Elevation (m)	RL: 29.80	RL: 29.10	RL: 29.85	RL: 29.95	RL: 30.15
Layer / Reduced Level	**	**	**	**	**
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.95	1.96	1.95	1.96	1.95
Field Moisture Content %	11.2	11.1	9.6	10.3	11.1
Field Dry Density (FDD) t/m ³	1.75	1.76	1.78	1.78	1.75
Peak Converted Wet Density t/m ³	2.00	2.03	2.02	2.00	1.99
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.5	0.0	0.5	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	97.5	97.0	96.5	98.5	98.0
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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Approved Signatory: Joshua Baker

Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-14
Issue Number: 1
Date Issued: 16/12/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1189
Sampling Method: AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	17-1189A	17-1189B	17-1189C	17-1189D	17-1189E
Test Number	104	105	106	107	108
Date Tested	08/12/2017	08/12/2017	08/12/2017	08/12/2017	08/12/2017
Time Tested	10:00	10:05	10:10	10:15	10:20
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500758	500760	500694	500661	500668
Northing	6922684	6922708	6922685	6922687	6922711
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 30.05	RL: 30.10	RL: 30.55	RL: 29.95	RL: 29.35
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	2.10	1.94	2.09	1.96	1.97
Field Moisture Content %	9.6	11.5	12.0	13.9	13.8
Field Dry Density (FDD) t/m ³	1.92	1.74	1.87	1.72	1.73
Peak Converted Wet Density t/m ³	2.08	2.05	2.08	2.01	2.06
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	2.0	0.0	-0.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	101.0	95.0	101.0	97.5	95.5
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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Approved Signatory: Joshua Baker

Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-14
Issue Number: 1
Date Issued: 16/12/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1189
Sampling Method: AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1		
Sample Number	17-1189F	17-1189G
Test Number	109	110
Date Tested	08/12/2017	08/12/2017
Time Tested	10:25	10:30
Test Request #/Location	Allotment Filling	Allotment Filling
Easting	500698	500707
Northing	6922736	6922703
Elevation (m)	**	**
Layer / Reduced Level	RL: 29.60	RL: 29.45
Thickness of Layer (mm)	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay
Test Depth (mm)	150	150
Sieve used to determine oversize (mm)	19.0	19.0
Percentage of Wet Oversize (%)	0.0	0.0
Field Wet Density (FWD) t/m ³	2.12	2.09
Field Moisture Content %	10.2	8.1
Field Dry Density (FDD) t/m ³	1.93	1.93
Peak Converted Wet Density t/m ³	2.10	2.07
Adjusted Peak Converted Wet Density t/m ³	**	**
Moisture Variation (Wv) %	1.5	2.0
Adjusted Moisture Variation %	**	**
Hilf Density Ratio (%)	101.0	101.0
Compaction Method	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



Approved Signatory: Joshua Baker

Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-13
Issue Number: 1
Date Issued: 16/12/2017
Client: Shadforth's Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1188
Sampling Method: AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	17-1188A	17-1188B	17-1188C	17-1188D	17-1188E
Test Number	94	95	96	97	98
Date Tested	07/12/2017	07/12/2017	07/12/2017	07/12/2017	07/12/2017
Time Tested	10:00	10:05	10:10	10:15	10:20
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500803	500795	500777	500789	500785
Northing	6922841	6922850	6922822	6922801	6922778
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 29.35	RL: 29.15	RL: 29.70	RL: 29.05	RL: 29.10
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.94	2.08	1.98	1.92	2.01
Field Moisture Content %	11.9	10.4	14.9	11.4	12.2
Field Dry Density (FDD) t/m ³	1.73	1.88	1.72	1.72	1.80
Peak Converted Wet Density t/m ³	2.00	2.09	1.97	2.02	2.07
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	1.0	2.0	2.0	1.5	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	97.0	99.0	100.5	95.0	97.0
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



Approved Signatory: Joshua Baker

Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-13
Issue Number: 1
Date Issued: 16/12/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1188
Sampling Method: AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	17-1188F	17-1188G	17-1188H	17-1188I	17-1188J
Test Number	99	100	101	102	103
Date Tested	07/12/2017	07/12/2017	07/12/2017	07/12/2017	07/12/2017
Time Tested	10:25	10:30	10:35	13:00	13:05
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500773	500780	500753	500765	500749
Northing	6922774	6922756	6922474	6922717	6922686
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 29.55	RL: 28.90	RL: 28.75	RL: 29.55	RL: 29.70
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.99	1.94	2.00	2.06	2.00
Field Moisture Content %	14.8	12.6	13.3	9.7	13.5
Field Dry Density (FDD) t/m ³	1.73	1.72	1.77	1.88	1.76
Peak Converted Wet Density t/m ³	1.98	2.00	1.99	2.10	2.09
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	1.0	2.0	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	100.5	97.0	101.0	98.5	95.5
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



Douglas Partners Pty Ltd

Gold Coast Laboratory

Unit 7/ 482, Scottsdale Drive Varsity Lakes QLD 4227

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Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Joshua Baker

Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-27
Issue Number: 1
Date Issued: 24/01/2018
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1317
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	18-1317A	18-1317B	18-1317C	18-1317D	18-1317E
Test Number	232	233	234	235	236
Date Tested	16/01/2018	16/01/2018	16/01/2018	16/01/2018	16/01/2018
Time Tested	10:00	10:05	10:10	10:15	10:20
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500737	500776	500813	500692	500707
Northing	6922917	6922916	6922909	6922986	6922991
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 29.75	RL: 30.15	RL: 29.95	RL: 29.50	RL: 28.55
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	2.01	2.04	1.96	2.02	1.98
Field Moisture Content %	11.5	12.9	10.7	11.6	10.8
Field Dry Density (FDD) t/m ³	1.80	1.81	1.77	1.81	1.79
Peak Converted Wet Density t/m ³	2.01	2.05	1.99	2.03	1.99
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	2.0	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	100.0	99.5	98.5	99.5	99.5
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



Douglas Partners Pty Ltd

Gold Coast Laboratory

Unit 7/ 482, Scottsdale Drive Varsity Lakes QLD 4227

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Approved Signatory: Joshua Baker

Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-18
Issue Number: 1
Date Issued: 20/12/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1227
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	17-1227A	17-1227B	17-1227C	17-1227D	17-1227E
Test Number	145	146	147	148	149
Date Tested	14/12/2017	14/12/2017	14/12/2017	14/12/2017	14/12/2017
Time Tested	10:00	10:05	10:10	10:15	10:20
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Easting	500823	500824	500793	500812	500786
Northing	6922814	6922777	6922740	6922753	6922755
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 30.15	RL: 30.20	RL: 30.55	RL: 30.65	RL: 30.20
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.98	1.94	1.98	1.99	1.99
Field Moisture Content %	12.7	12.9	11.2	12.3	12.9
Field Dry Density (FDD) t/m ³	1.75	1.72	1.78	1.77	1.76
Peak Converted Wet Density t/m ³	1.99	2.02	1.99	1.98	1.98
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	1.5	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	99.0	96.0	99.5	100.5	100.5
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



Douglas Partners Pty Ltd

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Approved Signatory: Joshua Baker

Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-18
Issue Number: 1
Date Issued: 20/12/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1227
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	17-1227F	17-1227G	17-1227H	17-1227I	17-1227J
Test Number	150	151	152	153	154
Date Tested	14/12/2017	14/12/2017	14/12/2017	14/12/2017	14/12/2017
Time Tested	10:25	10:30	10:35	13:30	13:35
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Easting	500803	500815	500786	500727	500741
Northing	6922781	6922818	6922674	6922655	6922660
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 30.10	RL: 29.95	RL: 30.10	RL: 29.65	RL: 29.85
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.95	1.94	2.00	1.98	2.00
Field Moisture Content %	12.3	11.8	13.4	14.2	12.8
Field Dry Density (FDD) t/m ³	1.74	1.73	1.76	1.74	1.78
Peak Converted Wet Density t/m ³	1.98	1.96	1.98	1.99	1.98
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	2.0	1.5	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	98.5	99.0	101.0	99.5	101.0
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



(Signature)

Approved Signatory: Joshua Baker

Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-18
Issue Number: 1
Date Issued: 20/12/2017
Client: Shadforth's Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1227
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	17-1227K	17-1227L	17-1227M	17-1227N
Test Number	155	156	157	158
Date Tested	14/12/2017	14/12/2017	14/12/2017	14/12/2017
Time Tested	13:40	13:45	13:50	13:55
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Easting	500753	500734	500768	500782
Northing	6922679	6922674	6922681	6922654
Elevation (m)	**	**	**	**
Layer / Reduced Level	RL: 30.85	RL: 30.40	RL: 30.35	RL: 30.60
Thickness of Layer (mm)	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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	0.0	0.0
Field Wet Density (FWD) t/m ³	2.06	2.07	2.04	2.08
Field Moisture Content %	11.8	10.9	11.2	10.7
Field Dry Density (FDD) t/m ³	1.84	1.86	1.84	1.88
Peak Converted Wet Density t/m ³	1.98	2.01	2.02	2.01
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	1.5	2.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	103.5	103.0	101.5	103.0
Compaction Method	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



Douglas Partners Pty Ltd

Gold Coast Laboratory

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Approved Signatory: Joshua Baker

Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-15
Issue Number: 1
Date Issued: 19/12/2017
Client: Shadforth's Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1207
Sampling Method: AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	17-1207A	17-1207B	17-1207C	17-1207D	17-1207E
Test Number	121	122	123	124	125
Date Tested	12/12/2017	12/12/2017	12/12/2017	12/12/2017	12/12/2017
Time Tested	10:00	10:05	10:10	10:15	10:20
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500819	500797	500778	500769	500768
Northing	6922830	6922780	6922721	6922689	6922655
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 28.75	RL: 29.00	RL: 29.20	RL: 29.35	RL: 29.55
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.96	1.94	1.93	1.94	1.94
Field Moisture Content %	11.5	12.4	10.9	11.3	11.6
Field Dry Density (FDD) t/m ³	1.75	1.72	1.74	1.75	1.74
Peak Converted Wet Density t/m ³	2.01	1.98	2.00	2.00	1.98
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	2.0	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	97.0	98.0	96.5	97.0	97.5
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



(Signature)

Approved Signatory: Joshua Baker

Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-15
Issue Number: 1
Date Issued: 19/12/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1207
Sampling Method: AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	17-1207F	17-1207G	17-1207H	17-1207I	17-1207J
Test Number	126	127	128	129	130
Date Tested	12/12/2017	12/12/2017	12/12/2017	12/12/2017	12/12/2017
Time Tested	10:25	13:00	13:05	13:10	13:15
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500780	500793	500811	500788	500805
Northing	6922691	6922730	6922784	6922705	6922761
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 29.05	RL: 29.00	RL: 29.85	RL: 28.85	RL: 28.90
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.96	1.97	1.97	1.95	1.96
Field Moisture Content %	13.0	11.1	13.2	9.3	10.4
Field Dry Density (FDD) t/m ³	1.73	1.77	1.74	1.78	1.77
Peak Converted Wet Density t/m ³	2.00	1.99	2.01	2.00	2.01
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	2.0	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	97.5	99.0	98.0	97.5	97.5
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



Approved Signatory: Joshua Baker

Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-16
Issue Number: 1
Date Issued: 19/12/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1197
Sampling Method: AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	17-1197A	17-1197B	17-1197C	17-1197D	17-1197E
Test Number	111	112	113	114	115
Date Tested	11/12/2017	11/12/2017	11/12/2017	11/12/2017	11/12/2017
Time Tested	10:00	10:05	10:10	10:20	10:25
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Easting	500812	500828	500855	500821	500838
Northing	6922718	6922768	6922821	6922810	6922761
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 28.20	RL: 28.40	RL: 28.00	RL: 28.10	RL: 28.05
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	8.1	0.0	2.2	3.4	0.0
Field Wet Density (FWD) t/m ³	2.03	2.00	2.01	2.02	2.00
Field Moisture Content %	12.7	12.1	11.9	12.0	12.4
Field Dry Density (FDD) t/m ³	1.80	1.79	1.80	1.80	1.78
Peak Converted Wet Density t/m ³	**	2.11	**	**	2.11
Adjusted Peak Converted Wet Density t/m ³	2.14	**	2.12	2.12	**
Moisture Variation (Wv) %	**	0.5	**	**	1.5
Adjusted Moisture Variation %	0.5	**	1.5	1.0	**
Hilf Density Ratio (%)	95.0	95.0	95.0	95.0	95.0
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



(Signature)

Approved Signatory: Joshua Baker

Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-16
Issue Number: 1
Date Issued: 19/12/2017
Client: Shadforth's Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1197
Sampling Method: AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	17-1197F	17-1197G	17-1197H	17-1197I	17-1197J
Test Number	116	117	118	119	120
Date Tested	11/12/2017	11/12/2017	11/12/2017	11/12/2017	11/12/2017
Time Tested	10:30	10:35	13:30	13:35	10:40
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Easting	500836	500812	500812	500803	500793
Northing	6922761	6922728	6922728	6922711	6922655
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 28.00	RL: 28.40	RL: 28.55	RL: 28.50	RL: 28.55
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	4.4	3.7	0.0	0.0	2.2
Field Wet Density (FWD) t/m ³	2.00	2.01	2.02	1.92	1.94
Field Moisture Content %	12.5	12.6	11.7	12.0	13.3
Field Dry Density (FDD) t/m ³	1.78	1.79	1.81	1.71	1.72
Peak Converted Wet Density t/m ³	**	**	2.10	2.02	**
Adjusted Peak Converted Wet Density t/m ³	2.10	2.12	**	**	2.05
Moisture Variation (Wv) %	**	**	1.5	1.5	**
Adjusted Moisture Variation %	1.0	0.5	**	**	2.0
Hilf Density Ratio (%)	95.0	95.0	96.5	95.0	95.0
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



Douglas Partners Pty Ltd

Gold Coast Laboratory

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Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Chad Whatley

Senior Technician

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-21
Issue Number: 1
Date Issued: 22/12/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1237
Sampling Method: AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	17-1237A	17-1237B	17-1237C	17-1237D	17-1237E
Test Number	169	170	171	172	173
Date Tested	18/12/2017	18/12/2017	18/12/2017	18/12/2017	18/12/2017
Time Tested	10:00	10:05	10:10	10:15	13:30
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500827	500854	500848	500893	500878
Northing	6922664	6922646	6922611	6922586	6922618
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 29.55	RL: 29.50	RL: 29.05	RL: 29.20	RL: 29.45
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.98	1.93	1.99	1.97	1.98
Field Moisture Content %	10.7	11.3	12.5	12.9	12.8
Field Dry Density (FDD) t/m ³	1.79	1.73	1.77	1.74	1.75
Peak Converted Wet Density t/m ³	2.01	2.02	2.02	1.99	2.03
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.5	1.5	0.5	2.0	0.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	98.5	95.5	98.5	98.5	97.5
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



Douglas Partners Pty Ltd

Gold Coast Laboratory

Unit 7/ 482, Scottsdale Drive Varsity Lakes QLD 4227

Phone: (07) 5568 8900

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Email: steven.whatley@douglaspartners.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Chad Whatley

Senior Technician

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-21
Issue Number: 1
Date Issued: 22/12/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1237
Sampling Method: AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	17-1237F	17-1237G	17-1237H
Test Number	174	175	176
Date Tested	18/12/2017	18/12/2017	18/12/2017
Time Tested	13:35	13:40	13:45
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500854	500862	500847
Northing	6922662	6922773	6922731
Elevation (m)	**	**	**
Layer / Reduced Level	RL: 29.55	RL: 28.25	RL: 28.10
Thickness of Layer (mm)	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.94	2.03	2.02
Field Moisture Content %	11.6	9.6	8.9
Field Dry Density (FDD) t/m ³	1.73	1.86	1.85
Peak Converted Wet Density t/m ³	2.04	2.10	2.08
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	-0.5	0.5	0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	95.0	97.0	97.0
Compaction Method	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



Approved Signatory: Joshua Baker
Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-17
Issue Number: 1
Date Issued: 19/12/2017
Client: Shadforth's Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1226
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	17-1226A	17-1226B	17-1226C	17-1226D	17-1226E
Test Number	131	132	133	134	135
Date Tested	13/12/2017	13/12/2017	13/12/2017	13/12/2017	13/12/2017
Time Tested	10:00	10:05	10:10	10:15	10:20
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Easting	500839	500824	500809	500778	500782
Northing	6922795	6922755	6922715	6922672	6922711
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 29.50	RL: 29.55	RL: 29.80	RL: 30.05	RL: 29.65
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.94	1.93	1.94	1.96	1.95
Field Moisture Content %	11.8	13.4	14.0	12.6	13.2
Field Dry Density (FDD) t/m ³	1.74	1.70	1.70	1.74	1.73
Peak Converted Wet Density t/m ³	1.92	1.94	1.94	1.93	1.92
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	2.0	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	101.5	99.0	100.0	101.5	101.5
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



Approved Signatory: Joshua Baker

Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-17
Issue Number: 1
Date Issued: 19/12/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1226
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	17-1226F	17-1226G	17-1226H	17-1226I	17-1226J
Test Number	136	137	138	139	140
Date Tested	13/12/2017	13/12/2017	13/12/2017	13/12/2017	13/12/2017
Time Tested	10:25	10:30	10:35	13:00	13:05
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Easting	500797	500823	500824	500832	500812
Northing	6922768	6922828	6922842	6922816	6922767
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 29.40	RL: 29.25	RL: 29.00	RL: 29.80	RL: 29.85
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.94	1.92	1.97	1.95	1.95
Field Moisture Content %	14.5	14.8	11.9	12.5	13.4
Field Dry Density (FDD) t/m ³	1.69	1.68	1.76	1.73	1.72
Peak Converted Wet Density t/m ³	1.93	1.92	1.93	1.94	1.95
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	2.0	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	100.5	100.0	102.5	100.5	100.0
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



(Signature)

Approved Signatory: Joshua Baker

Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-17
Issue Number: 1
Date Issued: 19/12/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1226
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	17-1226K	17-1226L	17-1226M	17-1226N
Test Number	141	142	143	144
Date Tested	13/12/2017	13/12/2017	13/12/2017	13/12/2017
Time Tested	13:10	13:15	13:20	13:25
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Easting	500792	500768	500741	500691
Northing	6922730	6922718	6922715	6922702
Elevation (m)	**	**	**	**
Layer / Reduced Level	RL: 30.15	RL: 29.75	RL: 28.70	RL: 28.55
Thickness of Layer (mm)	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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	0.0	0.0
Field Wet Density (FWD) t/m ³	1.95	1.96	1.97	1.96
Field Moisture Content %	13.2	12.7	13.3	12.0
Field Dry Density (FDD) t/m ³	1.73	1.74	1.74	1.75
Peak Converted Wet Density t/m ³	1.95	1.95	1.95	1.95
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	2.0	1.5
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	100.0	100.5	101.0	100.0
Compaction Method	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



Douglas Partners Pty Ltd

Gold Coast Laboratory

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Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Chad Whatley

Senior Technician

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-19
Issue Number: 1
Date Issued: 22/12/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1242
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	17-1242A	17-1242B	17-1242C	17-1242D	17-1242E
Test Number	177	178	179	180	181
Date Tested	19/12/2017	19/12/2017	19/12/2017	19/12/2017	19/12/2017
Time Tested	10:00	10:05	10:10	10:15	10:20
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Easting	500889	500887	500881	500882	500863
Northing	6922754	6922723	6922705	6922692	6922662
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 28.85	RL: 28.90	RL: 29.45	RL: 29.65	RL: 29.50
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.94	1.97	1.93	1.95	1.98
Field Moisture Content %	13.1	10.3	12.4	11.6	12.3
Field Dry Density (FDD) t/m ³	1.72	1.79	1.72	1.75	1.76
Peak Converted Wet Density t/m ³	1.97	1.98	1.95	1.96	2.02
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	2.0	1.5	0.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	98.5	100.0	98.5	99.5	98.0
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



Douglas Partners Pty Ltd

Gold Coast Laboratory

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Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Chad Whatley

Senior Technician

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-19
Issue Number: 1
Date Issued: 22/12/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1242
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	17-1242F	17-1242G	17-1242H	17-1242I	17-1242J
Test Number	182	183	184	185	186
Date Tested	19/12/2017	19/12/2017	19/12/2017	19/12/2017	19/12/2017
Time Tested	10:25	13:30	13:35	13:40	13:45
Test Request #/Location	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Easting	500859	500844	500840	500859	500827
Northing	6922790	6922790	6922764	6922621	6922633
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 28.95	RL: 29.25	RL: 29.45	RL: 29.25	RL: 29.95
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.96	1.96	1.94	1.96	1.98
Field Moisture Content %	10.2	11.0	9.9	10.4	9.7
Field Dry Density (FDD) t/m ³	1.77	1.77	1.76	1.77	1.81
Peak Converted Wet Density t/m ³	1.92	1.93	1.98	1.99	1.97
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.0	0.0	-1.0	0.5	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	101.5	102.0	98.0	98.0	100.5
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



Approved Signatory: Joshua Baker

Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-20
Issue Number: 1
Date Issued: 22/12/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1233
Sampling Method: AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	17-1233A	17-1233B	17-1233C	17-1233D	17-1233E
Test Number	159	160	161	162	163
Date Tested	15/12/2017	15/12/2017	15/12/2017	15/12/2017	15/12/2017
Time Tested	10:30	10:35	10:40	10:45	10:50
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500827	500829	500804	500811	500793
Northing	6922801	6922856	6922772	6922745	6922718
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 31.00	RL: 30.80	RL: 31.10	RL: 31.05	RL: 30.25
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.93	2.11	1.96	2.10	1.95
Field Moisture Content %	10.0	14.3	13.1	12.3	12.8
Field Dry Density (FDD) t/m ³	1.76	1.85	1.73	1.87	1.73
Peak Converted Wet Density t/m ³	1.87	2.09	1.94	2.06	1.93
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	2.0	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	103.5	101.0	101.0	102.0	101.0
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



Approved Signatory: Joshua Baker

Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-20
Issue Number: 1
Date Issued: 22/12/2017
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1233
Sampling Method: AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	17-1233F	17-1233G	17-1233H	17-1233I	17-1233J
Test Number	164	165	166	167	168
Date Tested	15/12/2017	15/12/2017	15/12/2017	15/12/2017	15/12/2017
Time Tested	10:55	11:00	11:05	13:30	13:35
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500829	500815	500847	500835	500866
Northing	6922695	6922672	6922671	6922662	6922636
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 29.10	RL: 28.85	RL: 28.75	RL: 29.00	RL: 29.25
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	2.11	2.12	1.97	1.94	1.96
Field Moisture Content %	11.9	12.7	12.6	10.5	10.3
Field Dry Density (FDD) t/m ³	1.88	1.88	1.75	1.76	1.78
Peak Converted Wet Density t/m ³	2.15	2.12	1.96	1.95	1.93
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	1.5	2.0	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	98.0	100.0	100.5	99.5	101.5
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



Approved Signatory: Joshua Baker

Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-22
Issue Number: 1
Date Issued: 12/01/2018
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1271
Sampling Method: AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	18-1271A	18-1271B	18-1271C	18-1271D	18-1271E
Test Number	187	188	189	190	191
Date Tested	09/01/2018	09/01/2018	09/01/2018	09/01/2018	09/01/2018
Time Tested	10:00	10:05	10:10	10:15	10:20
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500856	500852	500847	500851	500846
Northing	6922770	6922740	6922713	6922794	6922759
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 30.35	RL: 30.55	RL: 30.50	RL: 29.75	RL: 29.50
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	2.00	2.07	1.99	2.00	2.06
Field Moisture Content %	10.9	11.8	12.3	10.6	13.2
Field Dry Density (FDD) t/m ³	1.80	1.85	1.77	1.81	1.82
Peak Converted Wet Density t/m ³	2.03	2.05	1.98	2.03	2.06
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	1.0	2.0	2.0	1.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	98.0	101.0	100.5	98.5	100.0
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



Douglas Partners Pty Ltd

Gold Coast Laboratory

Unit 7/ 482, Scottsdale Drive Varsity Lakes QLD 4227

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Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Joshua Baker

Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-22
Issue Number: 1
Date Issued: 12/01/2018
Client: Shadforth's Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1271
Sampling Method: AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	18-1271F	18-1271G	18-1271H	18-1271I
Test Number	192	193	194	195
Date Tested	09/01/2018	09/01/2018	09/01/2018	09/01/2018
Time Tested	10:25	10:30	10:35	13:00
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500832	500836	500821	500835
Northing	6922742	6922714	6922705	6922693
Elevation (m)	**	**	**	**
Layer / Reduced Level	RL: 29.95	RL: 29.75	RL: 30.05	RL: 30.10
Thickness of Layer (mm)	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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	0.0	0.0
Field Wet Density (FWD) t/m ³	1.99	1.98	2.06	1.98
Field Moisture Content %	12.5	10.8	13.2	13.4
Field Dry Density (FDD) t/m ³	1.77	1.79	1.82	1.74
Peak Converted Wet Density t/m ³	1.98	2.08	2.03	2.03
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	2.0	1.5	1.5	2.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	100.5	95.5	101.5	97.5
Compaction Method	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



Approved Signatory: Joshua Baker

Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-23
Issue Number: 1
Date Issued: 13/01/2018
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1274
Sampling Method: AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	18-1274A	18-1274B	18-1274C	18-1274D	18-1274E
Test Number	196	197	198	199	200
Date Tested	10/01/2018	10/01/2018	10/01/2018	10/01/2018	10/01/2018
Time Tested	08:00	08:05	08:10	08:15	08:20
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500824	500828	500840	500854	500846
Northing	6922738	6922764	6922776	6922760	6922737
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 30.00	RL: 30.10	RL: 30.15	RL: 30.05	RL: 30.35
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.96	1.98	1.98	1.96	1.99
Field Moisture Content %	12.8	10.8	11.8	10.9	10.4
Field Dry Density (FDD) t/m ³	1.74	1.78	1.78	1.77	1.80
Peak Converted Wet Density t/m ³	2.02	2.05	2.05	2.04	2.02
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	2.0	2.0	1.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	97.0	96.5	97.0	96.0	98.5
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



Douglas Partners Pty Ltd

Gold Coast Laboratory

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Approved Signatory: Joshua Baker

Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-23
Issue Number: 1
Date Issued: 13/01/2018
Client: Shadforth's Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1274
Sampling Method: AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1	
Sample Number	18-1274F
Test Number	201
Date Tested	10/01/2018
Time Tested	08:25
Test Request #/Location	Allotment Filling
Easting	500825
Northing	6922708
Elevation (m)	**
Layer / Reduced Level	RL: 30.20
Thickness of Layer (mm)	300
Soil Description	Silty Sandy Clay
Test Depth (mm)	150
Sieve used to determine oversize (mm)	19.0
Percentage of Wet Oversize (%)	0.0
Field Wet Density (FWD) t/m ³	2.00
Field Moisture Content %	11.4
Field Dry Density (FDD) t/m ³	1.79
Peak Converted Wet Density t/m ³	2.03
Adjusted Peak Converted Wet Density t/m ³	**
Moisture Variation (Wv) %	1.5
Adjusted Moisture Variation %	**
Hilf Density Ratio (%)	98.5
Compaction Method	Standard

Moisture Variation Note:

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

Compaction Control Test Report



Approved Signatory: Joshua Baker

Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-24
Issue Number: 1
Date Issued: 16/01/2018
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1296
Sampling Method: AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	18-1296A	18-1296B	18-1296C	18-1296D	18-1296E
Test Number	212	213	214	215	216
Date Tested	12/01/2018	12/01/2018	12/01/2018	12/01/2018	12/01/2018
Time Tested	10:00	10:05	10:10	10:15	10:20
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500852	500873	500771	500751	500723
Northing	6922886	6922866	6922916	6922908	6922917
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 28.55	RL: 28.45	RL: 27.55	RL: 28.45	RL: 28.75
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	2.01	1.92	1.93	1.96	2.02
Field Moisture Content %	10.6	10.6	13.7	11.2	10.2
Field Dry Density (FDD) t/m ³	1.82	1.73	1.69	1.76	1.83
Peak Converted Wet Density t/m ³	2.04	2.01	2.02	2.04	2.05
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	1.5	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	98.5	95.0	95.0	96.0	98.5
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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Approved Signatory: Joshua Baker

Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-24
Issue Number: 1
Date Issued: 16/01/2018
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1296
Sampling Method: AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	18-1296F	18-1296G	18-1296H	18-1296I	18-1296J
Test Number	217	218	219	220	221
Date Tested	12/01/2018	12/01/2018	12/01/2018	12/01/2018	12/01/2018
Time Tested	10:25	10:30	10:35	13:30	13:35
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500688	500706	500739	500819	500842
Northing	6922940	6922953	6922948	6922916	6922920
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 28.90	RL: 28.75	RL: 28.60	RL: 27.75	RL: 28.65
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.93	2.00	1.94	1.96	2.03
Field Moisture Content %	10.8	11.7	12.5	10.8	11.6
Field Dry Density (FDD) t/m ³	1.74	1.79	1.72	1.77	1.82
Peak Converted Wet Density t/m ³	1.98	2.05	1.98	2.02	2.03
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	1.5	2.0	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	98.0	97.5	98.0	97.0	100.0
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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Approved Signatory: Joshua Baker

Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-25
Issue Number: 1
Date Issued: 18/01/2018
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1290
Sampling Method: AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	18-1290A	18-1290B	18-1290C	18-1290D	18-1290E
Test Number	202	203	204	205	206
Date Tested	11/01/2018	11/01/2018	11/01/2018	11/01/2018	11/01/2018
Time Tested	10:00	10:05	10:10	10:15	10:20
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500881	500887	500901	500866	500889
Northing	6922803	6922781	6922751	6922835	6922818
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 28.30	RL: 28.15	RL: 28.80	RL: 28.45	RL: 28.60
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.96	2.06	2.12	2.07	1.98
Field Moisture Content %	14.0	8.6	11.2	9.0	15.5
Field Dry Density (FDD) t/m ³	1.72	1.90	1.91	1.90	1.71
Peak Converted Wet Density t/m ³	1.99	2.08	2.17	2.04	1.98
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	2.0	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	98.5	99.0	98.0	101.5	99.5
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



Approved Signatory: Joshua Baker

Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-26
Issue Number: 1
Date Issued: 20/01/2018
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1307
Sampling Method: AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	18-1307A	18-1307B	18-1307C	18-1307D	18-1307E
Test Number	222	223	224	225	226
Date Tested	15/01/2018	15/01/2018	15/01/2018	15/01/2018	15/01/2018
Time Tested	10:00	10:05	10:10	10:15	10:20
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500739	500711	500699	500731	500769
Northing	6922914	6922929	6922950	6922937	6922917
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 29.25	RL: 29.10	RL: 29.55	RL: 29.40	RL: 29.70
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.97	1.95	1.96	1.98	1.95
Field Moisture Content %	10.5	10.1	14.2	11.7	18.2
Field Dry Density (FDD) t/m ³	1.78	1.77	1.71	1.78	1.65
Peak Converted Wet Density t/m ³	2.00	1.99	1.98	2.00	2.00
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	1.5	1.5	0.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	98.5	98.0	98.5	99.5	97.5
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



Approved Signatory: Joshua Baker

Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-26
Issue Number: 1
Date Issued: 20/01/2018
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1307
Sampling Method: AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	18-1307F	18-1307G	18-1307H	18-1307I	18-1307J
Test Number	227	228	229	230	231
Date Tested	15/01/2018	15/01/2018	15/01/2018	15/01/2018	15/01/2018
Time Tested	10:25	10:30	10:35	13:30	13:35
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500812	500795	500768	500719	500834
Northing	6922891	6922886	6922886	6922912	6922859
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 29.15	RL: 29.75	RL: 30.00	RL: 29.85	RL: 29.90
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	2.00	1.96	1.97	1.97	1.97
Field Moisture Content %	12.2	10.7	10.7	16.0	19.3
Field Dry Density (FDD) t/m ³	1.78	1.77	1.78	1.70	1.65
Peak Converted Wet Density t/m ³	2.02	1.97	1.99	2.01	2.00
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	2.0	-0.5	-1.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	98.5	99.5	99.0	98.0	98.0
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



Approved Signatory: Joshua Baker

Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-28
Issue Number: 1
Date Issued: 25/01/2018
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1324
Sampling Method: AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	18-1324F	18-1324G	18-1324H	18-1324I	18-1324J
Test Number	247	248	249	250	251
Date Tested	17/01/2018	17/01/2018	17/01/2018	17/01/2018	17/01/2018
Time Tested	10:25	13:30	13:35	13:40	13:45
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500866	500882	500691	500730	500719
Northing	6922806	6922778	6922928	6922908	6922947
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 29.65	RL: 29.55	RL: 30.25	RL: 30.10	RL: 29.75
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.96	1.96	1.99	2.01	1.97
Field Moisture Content %	11.4	14.2	11.1	9.9	12.6
Field Dry Density (FDD) t/m ³	1.76	1.72	1.79	1.83	1.75
Peak Converted Wet Density t/m ³	1.97	1.99	1.98	2.01	1.94
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	-0.5	2.0	2.0	-0.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	99.0	98.5	100.0	100.0	101.5
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



Douglas Partners Pty Ltd

Gold Coast Laboratory

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Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Joshua Baker

Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-30
Issue Number: 1
Date Issued: 31/01/2018
Client: Shadforth's Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1361
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	18-1361A	18-1361B	18-1361C	18-1361D	18-1361E
Test Number	262	263	264	265	266
Date Tested	19/01/2018	19/01/2018	19/01/2018	19/01/2018	19/01/2018
Time Tested	10:00	10:05	10:10	10:15	10:20
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500710	500737	500760	500777	500838
Northing	6922930	692947	6922917	6922904	6922870
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 30.55	RL: 30.40	RL: 30.45	RL: 30.60	RL: 30.25
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	2.02	1.99	1.98	2.00	2.00
Field Moisture Content %	8.7	11.3	12.4	9.1	11.1
Field Dry Density (FDD) t/m ³	1.86	1.79	1.76	1.83	1.80
Peak Converted Wet Density t/m ³	2.05	2.03	2.02	2.01	2.01
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	-0.5	-1.0	1.5	-1.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	98.5	98.0	98.5	99.0	99.5
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



Approved Signatory: Joshua Baker

Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-30
Issue Number: 1
Date Issued: 31/01/2018
Client: Shadforth's Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1361
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	18-1361F	18-1361G	18-1361H	18-1361I	18-1361J
Test Number	267	268	269	270	271
Date Tested	19/01/2018	19/01/2018	19/01/2018	19/01/2018	19/01/2018
Time Tested	10:25	13:00	13:05	13:10	13:15
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500808	500776	500795	500824	500850
Northing	6922883	6922938	6922947	6922935	6922904
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 30.80	RL: 29.90	RL: 29.55	RL: 29.20	RL: 29.45
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.99	1.98	2.03	2.02	1.99
Field Moisture Content %	11.3	11.8	9.6	9.7	12.0
Field Dry Density (FDD) t/m ³	1.79	1.77	1.85	1.84	1.78
Peak Converted Wet Density t/m ³	2.01	2.00	2.05	2.04	2.01
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	-1.0	-1.0	1.5	2.0	-0.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	99.0	99.0	99.0	99.0	99.0
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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Approved Signatory: Chad Whatley

Senior Technician

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-45
Issue Number: 1
Date Issued: 28/02/2018
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1482
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	18-1482A	18-1482B	18-1482C	18-1482D	18-1482E
Test Number	401	402	403	404	405
Date Tested	20/02/2018	20/02/2018	20/02/2018	20/02/2018	20/02/2018
Time Tested	10:00	10:05	10:10	10:15	10:20
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500640	500633	500624	501007	501030
Northing	6922916	6922880	6922847	6923034	6923021
Elevation (m)	**	**	**	**	**
Layer / Reduced Level	RL: 27.30	RL: 27.50	RL: 27.65	RL: 30.30	RL: 29.95
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	2.06	2.07	2.09	2.06	2.02
Field Moisture Content %	9.0	11.0	11.2	8.9	10.9
Field Dry Density (FDD) t/m ³	1.89	1.87	1.88	1.89	1.82
Peak Converted Wet Density t/m ³	2.07	2.08	2.10	2.06	2.04
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	2.0	2.0	-1.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	99.5	100.0	99.5	100.0	99.0
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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Approved Signatory: Chad Whatley

Senior Technician

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-66
Issue Number: 1
Date Issued: 07/04/2018
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1632
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	18-1632A	18-1632B	18-1632C	18-1632D
Test Number	599	600	601	602
Date Tested	04/04/2018	04/04/2018	04/04/2018	04/04/2018
Time Tested	10:00	10:05	10:10	10:15
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500852	500863	500879	500850
Northing	6922816	6922789	6922796	6922832
Layer / Reduced Level	RL: 31.10	RL: 31.15	RL: 31.70	RL: 31.10
Thickness of Layer (mm)	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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	0.0	0.0
Field Wet Density (FWD) t/m ³	2.00	2.03	2.01	2.04
Field Moisture Content %	12.5	12.2	12.5	12.3
Field Dry Density (FDD) t/m ³	1.78	1.81	1.79	1.82
Peak Converted Wet Density t/m ³	2.04	2.04	2.03	2.04
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	98.5	99.5	99.5	100.0
Compaction Method	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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Approved Signatory: Chad Whatley

Senior Technician

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-50
Issue Number: 1
Date Issued: 15/03/2018
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1538
Date Sampled: 01/03/2018
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	18-1538A	18-1538B	18-1538C	18-1538D	18-1538E
Test Number	451	452	453	454	455
Date Tested	01/03/2018	01/03/2018	01/03/2018	01/03/2018	01/03/2018
Time Tested	11:00	11:05	11:10	11:15	13:30
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500695	500682	500695	500676	500673
Northing	6922825	6922835	6922851	6922796	6922956
Layer / Reduced Level	RL: 29.80	RL: 29.75	RL: 30.65	RL: 30.50	RL: 29.80
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	2.09	2.06	2.05	2.10	2.05
Field Moisture Content %	12.7	12.2	12.7	11.4	11.1
Field Dry Density (FDD) t/m ³	1.86	1.83	1.82	1.88	1.85
Peak Converted Wet Density t/m ³	2.10	2.03	2.02	2.13	2.02
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.5	2.0	1.5	1.5	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	99.5	101.5	101.5	98.5	101.5
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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Approved Signatory: Chad Whatley

Senior Technician

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-50
Issue Number: 1
Date Issued: 15/03/2018
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1538
Date Sampled: 01/03/2018
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	18-1538F	18-1538G	18-1538H
Test Number	456	457	458
Date Tested	01/03/2018	01/03/2018	01/03/2018
Time Tested	13:35	13:40	13:45
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500661	500648	500638
Northing	6922915	6922940	6922890
Layer / Reduced Level	RL: 29.10	RL: 28.55	RL: 28.85
Thickness of Layer (mm)	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	2.02	2.06	2.03
Field Moisture Content %	8.4	10.0	408.5
Field Dry Density (FDD) t/m ³	1.86	1.87	0.40
Peak Converted Wet Density t/m ³	2.03	2.06	2.07
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	0.5	2.0	0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	99.5	100.0	98.0
Compaction Method	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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Approved Signatory: Chad Whatley

Senior Technician

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-58
Issue Number: 1
Date Issued: 28/03/2018
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1591
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	18-1591A	18-1591B	18-1591C	18-1591D	18-1591E
Test Number	541	542	543	544	545
Date Tested	21/03/2018	21/03/2018	21/03/2018	21/03/2018	21/03/2018
Time Tested	10:00	10:05	10:10	10:15	10:20
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500618	500633	500634	500644	500638
Northing	6922830	6922855	6922904	6922879	6922843
Layer / Reduced Level	RL: 27.40	RL: 27.55	RL: 27.90	RL: 28.50	RL: 28.00
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	2.00	2.06	2.07	2.02	2.00
Field Moisture Content %	10.5	11.7	10.8	8.8	9.8
Field Dry Density (FDD) t/m ³	1.81	1.84	1.87	1.86	1.82
Peak Converted Wet Density t/m ³	2.01	2.08	2.08	2.05	2.02
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	1.5	2.0	0.0	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	100.0	99.0	100.0	98.5	98.5
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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Approved Signatory: Chad Whatley

Senior Technician

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-58
Issue Number: 1
Date Issued: 28/03/2018
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1591
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1	
Sample Number	18-1591F
Test Number	546
Date Tested	21/03/2018
Time Tested	10:25
Test Request #/Location	Allotment Filling
Easting	500626
Northing	6922814
Layer / Reduced Level	RL: 27.75
Thickness of Layer (mm)	300
Soil Description	Silty Sandy Clay
Test Depth (mm)	150
Sieve used to determine oversize (mm)	19.0
Percentage of Wet Oversize (%)	0.0
Field Wet Density (FWD) t/m ³	2.06
Field Moisture Content %	10.6
Field Dry Density (FDD) t/m ³	1.87
Peak Converted Wet Density t/m ³	2.08
Adjusted Peak Converted Wet Density t/m ³	**
Moisture Variation (Wv) %	1.0
Adjusted Moisture Variation %	**
Hilf Density Ratio (%)	99.5
Compaction Method	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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Approved Signatory: Chad Whatley

Senior Technician

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-60
Issue Number: 1
Date Issued: 28/03/2018
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1594
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	18-1594A	18-1594B	18-1594C	18-1594D	18-1594E
Test Number	547	548	549	550	551
Date Tested	22/03/2018	22/03/2018	22/03/2018	22/03/2018	22/03/2018
Time Tested	10:00	10:05	10:10	10:15	13:30
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500647	500630	500618	500641	500626
Northing	6922742	6922713	6922735	6922794	6922794
Layer / Reduced Level	RL: 29.60	RL: 29.65	RL: 29.45	RL: 28.70	RL: 28.75
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	2.02	2.04	1.99	2.04	2.01
Field Moisture Content %	12.4	9.4	12.6	13.9	14.2
Field Dry Density (FDD) t/m ³	1.80	1.86	1.77	1.79	1.76
Peak Converted Wet Density t/m ³	2.06	2.04	2.02	2.06	2.02
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	1.0	2.0	2.0	1.5	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	98.5	100.0	98.5	99.0	99.5
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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Approved Signatory: Chad Whatley

Senior Technician

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-60
Issue Number: 1
Date Issued: 28/03/2018
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1594
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	18-1594F	18-1594G	18-1594H
Test Number	552	553	554
Date Tested	22/03/2018	22/03/2018	22/03/2018
Time Tested	13:35	13:40	13:45
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500649	500633	500642
Northing	6922841	6922835	6922872
Layer / Reduced Level	RL: 28.75	RL: 28.60	RL: 28.80
Thickness of Layer (mm)	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	2.06	2.00	2.02
Field Moisture Content %	11.1	21.5	14.2
Field Dry Density (FDD) t/m ³	1.85	1.65	1.76
Peak Converted Wet Density t/m ³	2.06	2.03	2.04
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	1.0	2.0	1.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	100.0	99.0	99.0
Compaction Method	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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Approved Signatory: Chad Whatley

Senior Technician

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-62
Issue Number: 1
Date Issued: 31/03/2018
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1583
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	18-1583F	18-1583G	18-1583H	18-1583I	18-1583J
Test Number	536	537	538	539	540
Date Tested	20/03/2018	20/03/2018	20/03/2018	20/03/2018	20/03/2018
Time Tested	10:25	13:30	13:35	13:40	13:45
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500633	500645	500622	500644	500649
Northing	6922809	6922791	6922788	6922814	6922844
Layer / Reduced Level	RL: 27.75	RL: 28.50	RL: 28.25	RL: 28.70	RL: 28.95
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	2.00	1.96	1.98	1.99	2.00
Field Moisture Content %	11.6	11.0	10.6	10.7	11.3
Field Dry Density (FDD) t/m ³	1.79	1.77	1.79	1.80	1.80
Peak Converted Wet Density t/m ³	1.97	1.98	2.02	2.02	2.04
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	1.5	1.5	2.0	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	101.5	99.0	98.5	98.5	98.0
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



Douglas Partners Pty Ltd

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Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Chad Whatley

Senior Technician

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-63
Issue Number: 1
Date Issued: 06/04/2018
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1623
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	18-1623A	18-1623B	18-1623C	18-1623D	18-1623E
Test Number	565	566	567	568	569
Date Tested	27/03/2018	27/03/2018	27/03/2018	27/03/2018	27/03/2018
Time Tested	13:30	13:35	13:40	13:45	13:50
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500638	500647	500637	500618	500621
Northing	6922796	6922830	6922842	6922831	6922802
Layer / Reduced Level	RL: 29.00	RL: 29.10	RL: 28.55	RL: 28.20	RL: 28.65
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	2.03	2.01	2.02	2.04	2.03
Field Moisture Content %	10.4	10.0	10.2	10.6	11.6
Field Dry Density (FDD) t/m ³	1.84	1.83	1.83	1.85	1.82
Peak Converted Wet Density t/m ³	2.06	2.04	2.04	2.08	2.06
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	2.0	1.5	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	98.5	98.5	99.5	98.5	98.0
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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Senior Technician

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-63
Issue Number: 1
Date Issued: 06/04/2018
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1623
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1	
Sample Number	18-1623F
Test Number	570
Date Tested	27/03/2018
Time Tested	13:55
Test Request #/Location	Allotment Filling
Easting	500645
Northing	6922814
Layer / Reduced Level	RL: 28.85
Thickness of Layer (mm)	300
Soil Description	Silty Sandy Clay
Test Depth (mm)	150
Sieve used to determine oversize (mm)	19.0
Percentage of Wet Oversize (%)	0.0
Field Wet Density (FWD) t/m ³	2.02
Field Moisture Content %	9.7
Field Dry Density (FDD) t/m ³	1.84
Peak Converted Wet Density t/m ³	2.04
Adjusted Peak Converted Wet Density t/m ³	**
Moisture Variation (Wv) %	2.0
Adjusted Moisture Variation %	**
Hilf Density Ratio (%)	99.0
Compaction Method	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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NATA Accredited Laboratory Number: 828

Report Number: 672798.00-64
Issue Number: 1
Date Issued: 06/04/2018
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1625
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	18-1625A	18-1625B	18-1625C	18-1625D	18-1625E
Test Number	581	582	583	584	585
Date Tested	29/03/2018	29/03/2018	29/03/2018	29/03/2018	29/03/2018
Time Tested	10:00	10:05	10:10	10:15	10:20
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500672	500683	500671	500656	500651
Northing	6922957	6923010	6923033	6922994	6922960
Layer / Reduced Level	RL: 30.00	RL: 29.90	RL: 30.10	RL: 30.05	RL: 29.30
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	2.04	2.03	2.02	2.06	2.03
Field Moisture Content %	11.7	12.2	11.8	13.1	12.3
Field Dry Density (FDD) t/m ³	1.83	1.81	1.81	1.82	1.81
Peak Converted Wet Density t/m ³	2.09	2.04	2.04	2.09	2.05
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	0.5	1.0	1.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	98.0	99.5	99.0	98.5	99.0
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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NATA Accredited Laboratory Number: 828

Report Number: 672798.00-64
Issue Number: 1
Date Issued: 06/04/2018
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1625
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	18-1625F	18-1625G	18-1625H
Test Number	586	587	588
Date Tested	29/03/2018	29/03/2018	29/03/2018
Time Tested	10:25	10:35	10:40
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500664	500642	500657
Northing	6922915	6922905	6922879
Layer / Reduced Level	RL: 29.60	RL: 29.00	RL: 29.45
Thickness of Layer (mm)	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	2.06	2.02	2.07
Field Moisture Content %	12.1	11.7	12.0
Field Dry Density (FDD) t/m ³	1.84	1.81	1.85
Peak Converted Wet Density t/m ³	2.05	2.04	2.05
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	2.0	2.0	1.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	100.5	99.5	101.0
Compaction Method	Standard	Standard	Standard

Moisture Variation Note:

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

Compaction Control Test Report



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NATA Accredited Laboratory Number: 828

Report Number: 672798.00-65
Issue Number: 1
Date Issued: 07/04/2018
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1624
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	18-1624A	18-1624B	18-1624C	18-1624D	18-1624E
Test Number	571	572	573	574	575
Date Tested	28/03/2018	28/03/2018	28/03/2018	28/03/2018	28/03/2018
Time Tested	10:00	10:05	10:10	10:15	10:20
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500636	500641	500629	500647	500648
Northing	6922854	6922837	6922818	6922799	6922770
Layer / Reduced Level	RL: 28.45	RL: 29.10	RL: 28.65	RL: 29.40	RL: 29.25
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.99	2.01	2.09	2.00	2.01
Field Moisture Content %	11.2	12.1	7.6	11.6	11.5
Field Dry Density (FDD) t/m ³	1.79	1.79	1.94	1.79	1.80
Peak Converted Wet Density t/m ³	2.01	2.03	2.13	2.01	2.01
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	0.5	0.5	1.5	1.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	99.5	99.0	98.0	99.5	100.0
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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Senior Technician

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-65
Issue Number: 1
Date Issued: 07/04/2018
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1624
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	18-1624F	18-1624G	18-1624H	18-1624I	18-1624J
Test Number	576	577	578	579	580
Date Tested	28/03/2018	28/03/2018	28/03/2018	28/03/2018	28/03/2018
Time Tested	10:25	13:30	13:35	13:40	13:45
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500622	500746	500781	500820	500722
Northing	6922781	6922995	6922984	6922992	6923010
Layer / Reduced Level	RL: 28.45	RL: 30.05	RL: 30.20	RL: 30.00	RL: 30.35
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	2.03	2.04	2.10	2.10	2.08
Field Moisture Content %	55.8	11.9	8.6	8.6	8.3
Field Dry Density (FDD) t/m ³	1.30	1.83	1.94	1.93	1.92
Peak Converted Wet Density t/m ³	2.03	2.04	2.08	2.11	2.11
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	1.5	2.0	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	100.0	100.0	101.0	99.5	98.5
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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Senior Technician

NATA Accredited Laboratory Number: 828

Report Number: 672798.00-67
Issue Number: 1
Date Issued: 11/04/2018
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1629
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	18-1629A	18-1629B	18-1629C	18-1629D	18-1629E
Test Number	589	590	591	592	593
Date Tested	03/04/2018	03/04/2018	03/04/2018	03/04/2018	03/04/2018
Time Tested	10:00	10:05	10:10	10:15	10:20
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500672	500667	500657	500665	500680
Northing	6922971	6922951	6922964	6922990	6922965
Layer / Reduced Level	RL: 30.05	RL: 29.90	RL: 30.15	RL: 29.95	RL: 30.10
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	2.03	2.04	2.02	2.04	2.06
Field Moisture Content %	11.1	12.5	11.5	11.1	13.2
Field Dry Density (FDD) t/m ³	1.83	1.81	1.81	1.84	1.82
Peak Converted Wet Density t/m ³	2.05	2.05	2.03	2.04	2.06
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	2.0	2.0	0.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	99.0	99.5	99.5	100.0	100.0
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Compaction Control Test Report



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Senior Technician

NATA Accredited Laboratory Number: 828

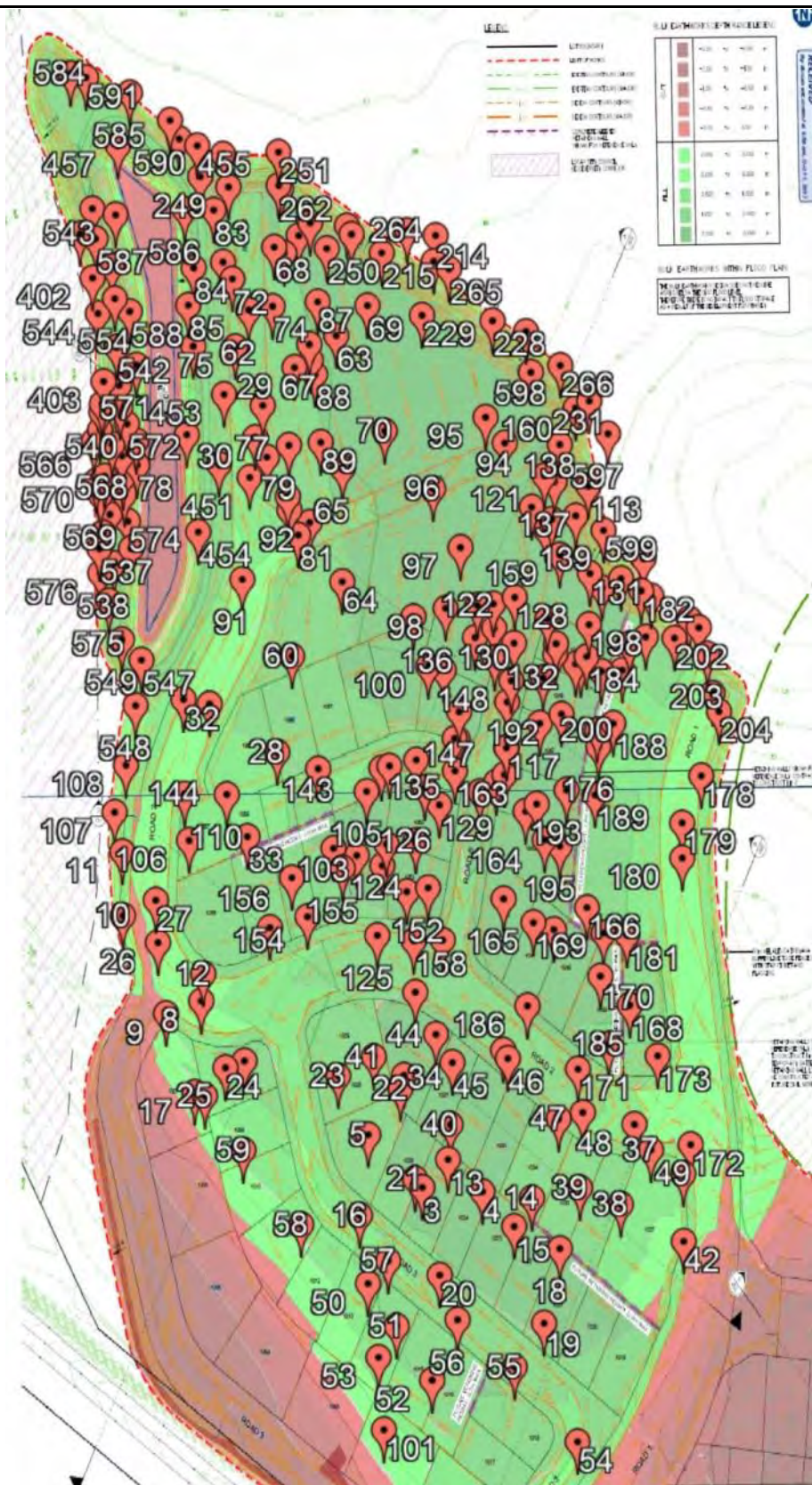
Report Number: 672798.00-67
Issue Number: 1
Date Issued: 11/04/2018
Client: Shadforths Civil Pty Ltd
 99 Sandalwood Lane, Forest Glen QLD 4556
Contact: Josh Burkin
Project Number: 672798.00
Project Name: Phase 1 Bulk Earthworks
Project Location: Cusack Lane, Jimboomba
Work Request: 1629
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	18-1629F	18-1629G	18-1629H	18-1629I	18-1629J
Test Number	594	595	596	597	598
Date Tested	03/04/2018	03/04/2018	03/04/2018	03/04/2018	03/04/2018
Time Tested	10:25	13:30	13:35	13:40	13:45
Test Request #/Location	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling	Allotment Filling
Easting	500671	500859	500878	500842	500811
Northing	6922945	6922802	6922781	6922848	6922868
Layer / Reduced Level	RL: 30.25	RL: 30.95	RL: 30.20	RL: 30.75	RL: 30.50
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
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 (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	2.04	2.02	2.05	2.03	2.05
Field Moisture Content %	11.9	12.5	14.5	13.1	14.8
Field Dry Density (FDD) t/m ³	1.82	1.79	1.79	1.79	1.79
Peak Converted Wet Density t/m ³	2.05	2.06	2.08	2.02	2.04
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.5	0.5	0.0	0.5	0.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	99.5	98.0	98.5	100.5	100.5
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC



Location of Tests
Cusack Lane Phase 1
Cusack Lane, Jimboomba
 CLIENT: Shadforths Civil Contractors

PROJECT:	672798.00
DWG No:	1
REV:	A
DATE:	20-Apr-18