

## Level 1 Report AS3798

**Client:** Shadforth's Civil Pty Ltd  
**Project:** Parklakes 2 – Stages 12 & 13  
**Address:** Lot 6 Kirra Road, Maroochydore Qld  
**Job No:** J19/76



Version	Date	Author	Initials	Reviewer	Initials
2	9/11/20	JJ		DW	

Form No: W169 – Version 1 (29/05/18)



CONSTRUCTION

MATERIALS

TESTING

## Table of Contents

1.0	<b>Introduction</b>	Page 1
2.0	<b>Site Description</b>	Page 1
3.0	<b>Foundation Preparation</b>	Page 1
	3.1 Site Stripping	
	3.2 Proof Rolling	
4.0	<b>Controlled Filling</b>	Page 2
5.0	<b>Compaction Control Testing</b>	Page 2
6.0	<b>Field Density Results</b>	Page 2
7.0	<b>Report on Filling Operations</b>	Page 3
8.0	<b>Notes</b>	Page 3

**Appendix 1 – General Layout Plan**

**Appendix 2 – Field Density Reports**

**Appendix 3 – Materials Testing (Onsite Crusher Prior to Compaction)**

**Appendix 4 – Typical Site Conditions**

**Appendix 5 – Site Information**

## 1.0 Introduction

Wagner Soil Testing has recently completed a Level One Overview of Earthworks, in accordance with the requirements of **AS3798 – “Guidelines on Earthworks for Commercial and Residential Developments”** for Parklakes 2 Stages 12 & 13, Maroochydore Qld.

Controlled fill (as defined in AS 2870) was placed by Shadforth's Civil Pty Ltd. Stripping instructions, proof rolling and compaction control testing was carried out by Wagner Soil Testing (on a fulltime basis) during all earthwork's operations. Our onsite supervision component excludes assessments of fill quality and engineering properties that are outside the requirements of AS3798 – 2007, including CBR values and soil reactivity.

## 2.0 Site Description

The site is located at Lot 6 Kirra Road, Maroochydore Qld. The general location of the site is shown in the attached site plans (Appendix 1). The site is bound by East View Court, Yandina Bli-Bli Road, and existing residential development.

## 3.0 Foundation Preparation

### 3.1 Site Stripping

Vegetation, topsoil, and organic rich materials were stripped and stockpiled onsite prior to the commencement of filling operations. As a safety factor several test pits were excavated in the proposed fill area to assess subsurface conditions & any significant issues were noted & remediated during this phase.

### 3.2 Proof Rolling

All stripped areas were proof rolled prior to any fill placement. Any compressible areas with apparent movement were excavated to a firm base before any fill being placed.

## 4.0 Controlled Filling

Fill materials (onsite & imported) were compacted using a pad foot roller. The natural ground in the areas of filling generally comprised of silty sandy clayey gravel (GC). The fill material used was generally as above. Efforts were made during the earthworks operation to remove any oversized materials that did not break down under general rolling & compaction techniques. Whilst Shadforth's endeavored to remove all oversized materials with the supervision of Wagner Soil Testing, due to the materials composition, topography together with time & budget constraints, some oversize materials are anticipated to be encountered. Moisture contents of all fill placed was monitored by Wagner Soil Testing. Total volumes of fill reached 74,000m<sup>3</sup>.

CONSTRUCTION

MATERIALS

TESTING



## 5.0 Compaction Control Testing

Compaction Control Testing was carried out by Wagner Soil Testing. Testing was carried out in accordance with the requirements of **AS3798 Table 5.1 (Minimum Relative Compaction)** and **Table 8.1 (Frequency of Field Density Tests)**. During the works, one hundred and fifty-six (156) Field Dry Densities were carried out on fill materials together with Dynamic Cone Penetrometers (DCP's) over the filled zones at the completion of earthworks operations to help quantify bearing capacities. Where ripped / crushed rock or coarse material is used for filling, the after-compaction quantity of material coarser than 37.5mm may exceed 20%. When such material is utilised as fill, it is common to adopt a method specification. In this case section 5.4 of AS3798 was applied.

## 6.0 Field Density Results

All Nuclear Field Densities carried out on the fill indicated Density Ratios greater than the specified requirement of 95% (standard compaction) & **AS3798 Table 5.1**.

## 7.0 Report on Filling Operations

The results obtained from Compaction Control Testing, together with observations made during earthworks operations indicate that all fill materials were placed in a controlled manner in accordance with good engineering practices. The earthworks have been carried out to meet the requirements of **Level 1 Certification as per AS3798 – “Guidelines on Earthworks for Commercial and Residential Developments”**.

## 8.0 Notes

Certified / Controlled (Level 1) Fill is only an assurance of its density. There are sites where long-term consolidations of fill can occur, unrelated to its actual density. Sites where fill has been placed over inferior material and sites where the depth of controlled fill varies dramatically over short distances are sites where differential consolidations must be considered. Although all Field Densities carried out reached density ratios greater than 95% as required, some material still may have bearing ratios below 100kPa as per AS2870 – Residential Slabs & Footings depending on material composition, and unfavorable site classifications and low subgrade design strengths still may be encountered.

All compacted fill is subject to secondary (creep) settlement, which is relational to the depth of the fill. Estimated secondary settlement may be of the order of 1% to 2% of the total fill height over 15 years. There is a possibility that additional fill has been placed after the date of the last field density test or at times when Wagner Soil Testing has not been notified that filling operations are in progress. The installation of services may cause disruption of the compacted fill.



Unless otherwise stated, Level 1 Certification does not address trench backfill operations, batter slope stability, retaining wall construction, global stability analysis, acid sulfate testing and or management. The "supervision" component of this Level 1 Report is not NATA endorsed. Wagner Soil Testing must be contacted if any site levels are modified whatsoever. It is the client's responsibility to maintain site drainage after the issue of this report.

A full geotechnical site investigation / classification and foundation design for the specific ground conditions should be carried out by suitably qualified or experienced personnel prior to building. This service can be provided, if required, by contacting Wagner Soil Testing.

**Constraints:**

This report was produced for the sole use of Shadforth's Civil Pty Ltd. This report should not be used by or depended upon for other projects or purposes on the same or other projects or by a third party. In the preparation of this report Wagner Soil Testing has relied upon information provided by the client and or their agents.

The results provided in this report are indicative of the subsurface conditions on the site only at the specific sampling or testing locations, and then only to the depths investigated along with the time the work was carried out. It is known that subsurface conditions can suddenly change due to irregular geological processes and as a result of human influences. Such changes may occur after Wagner Soil Testing's field testing has been completed.

Certain ground conditions and the materials behavior observed or contained at the test locations may alter from those which may be encountered elsewhere on the site. Should variations in subsurface conditions be encountered, then additional advice should be sought from Wagner Soil Testing and if required, amendments made.

Wagner Soil Testing cannot be held responsible for interpretations or conclusions made by others unless they are supported by an expressed statement, interpretation, outcome or conclusion given in this report.

To establish a geotechnical model as per AS1726-2017-5.2 we require extra testing. No differential settlement estimates have been calculated for this site.

For further technical support regarding this Geotechnical Report please contact Mr. Dean Wagner of Wagner Soil Testing.



Dean Wagner  
Managing Director  
**Wagner Soil Testing**

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Form No: W170 – Version 2 (01/07/2020)

## Appendix 1 General Layout Plan

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MATERIALS

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# PARKLAKES 2 STAGES 12 & 13


BULK EARTHWORKS PLANS

ON  
LOT 6 on SP110911

FOR  
PARKLAKES II DEVELOPMENTS PTY LTD

AT  
KIRRA ROAD, MAROOCHY RIVER

Council Development Permit No. MCU: 07/0192

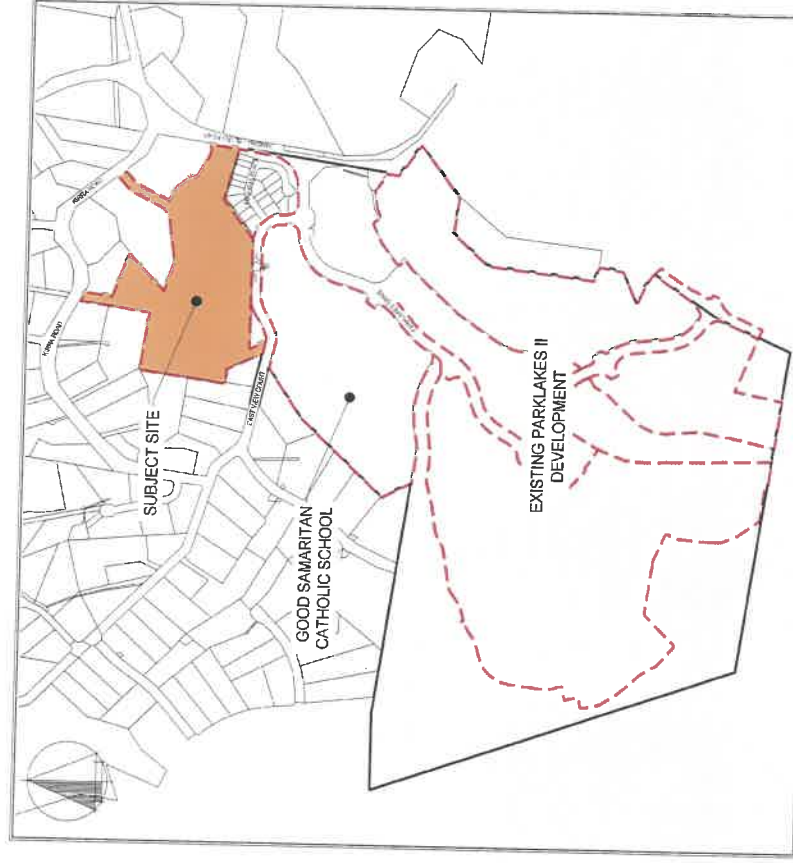
  
**COVEY**  
ASSOCIATES PTY LTD  
ABN 59 137 305 992

Consulting Civil &  
Structural Engineers  
Project Management  
& Planning

## PROJECT No. 162011 - DWG SCHEDULE

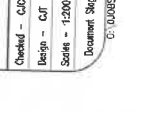
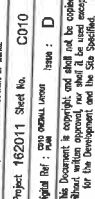
PROJECT MANAGER: DAMION MACDONALD PH 0417 604 375  
PROJECT ENGINEER: CHARLES COOK PH 0448 833 116

Sheet List Table	
Sheet Number	Sheet Title
C000	COVER SHEET
C002	EXISTING SITE PLAN
C010	OVERALL LAYOUT PLAN
C100	EARTHWORKS PLAN SHEET 1
C101	EARTHWORKS PLAN SHEET 2
C150	BANK EARTHWORKS CUT & FILL PLAN
C200	SITE SECTIONS
C300	EROSION & SEDIMENT CONTROL PLAN
C310	EROSION & SEDIMENT CONTROL DETAILS



LOCALITY PLAN  
N.T.S.







THE INFORMATION PROVIDED ON THIS LAUVER PLAN IS AFFORWARDED ONLY AND INTENDED AS A GUIDE TO ASSIST FUTURE INVESTORS IN IDENTIFYING POTENTIAL PURCHASERS. DISCLOSURE AND AREAS ARE SUBJECT TO SURVEY AND THAT WAY. THE DEVELOPER HAS USED REASONABLE DUE DILIGENCE TO ENSURE THAT THE INFORMATION IN THIS DOCUMENT IS ACCURATE, BUT ACCEPTS NO RESPONSIBILITY AND DISCLAIMS ALL LIABILITY IN RESPECT OF ANY ERRORS, INACCURACIES OR MISSTATEMENTS IN THIS DOCUMENT. INTERESTED PURCHASERS SHOULD MAKE THEIR OWN ENQUIRIES TO VERIFY THE ACCURACY OF INFORMATION CONTAINED IN THIS DOCUMENT.



SCALE 1:1000 (A3)

Check all dimensions before commencement of work.  
Check S&S boundary dimensions from the T&E plans.  
Check Building Boundary clearances by set out.  
Notwithstanding the information supplied on this drawing, the location, depth and extent of underground or overhead services are to be confirmed and protected on site by the contractor prior to commencement of works.

Issue Date	Due Date	Dr	Cr
4 02-07-19	DEBT ISSUE		60

**EARTHWORKS PLAN**  
**SHEET 1**

Project -  
PARKLAKES 2 ESTATE  
PRECINCT R3 STAGES  
12 & 13

Client -  
**PARKLAKES II  
DEVELOPMENTS PTY  
LTD**

8 KIRRA ROAD, BLI BLI



24 DUPONT AVENUE  
PO BOX 16 MAROONHORE QLD 4556  
E-MAIL: [engineer@cooney.com.au](mailto:engineer@cooney.com.au)  
(07) 5445 7777 Fax (07) 5443 7577

of the:

EVIN COVEY Hing. CPDg. MEZant. MSPFAC. SPQD1823  
ERIS CAMP BCoq(horn). MEZant. SPQD4944

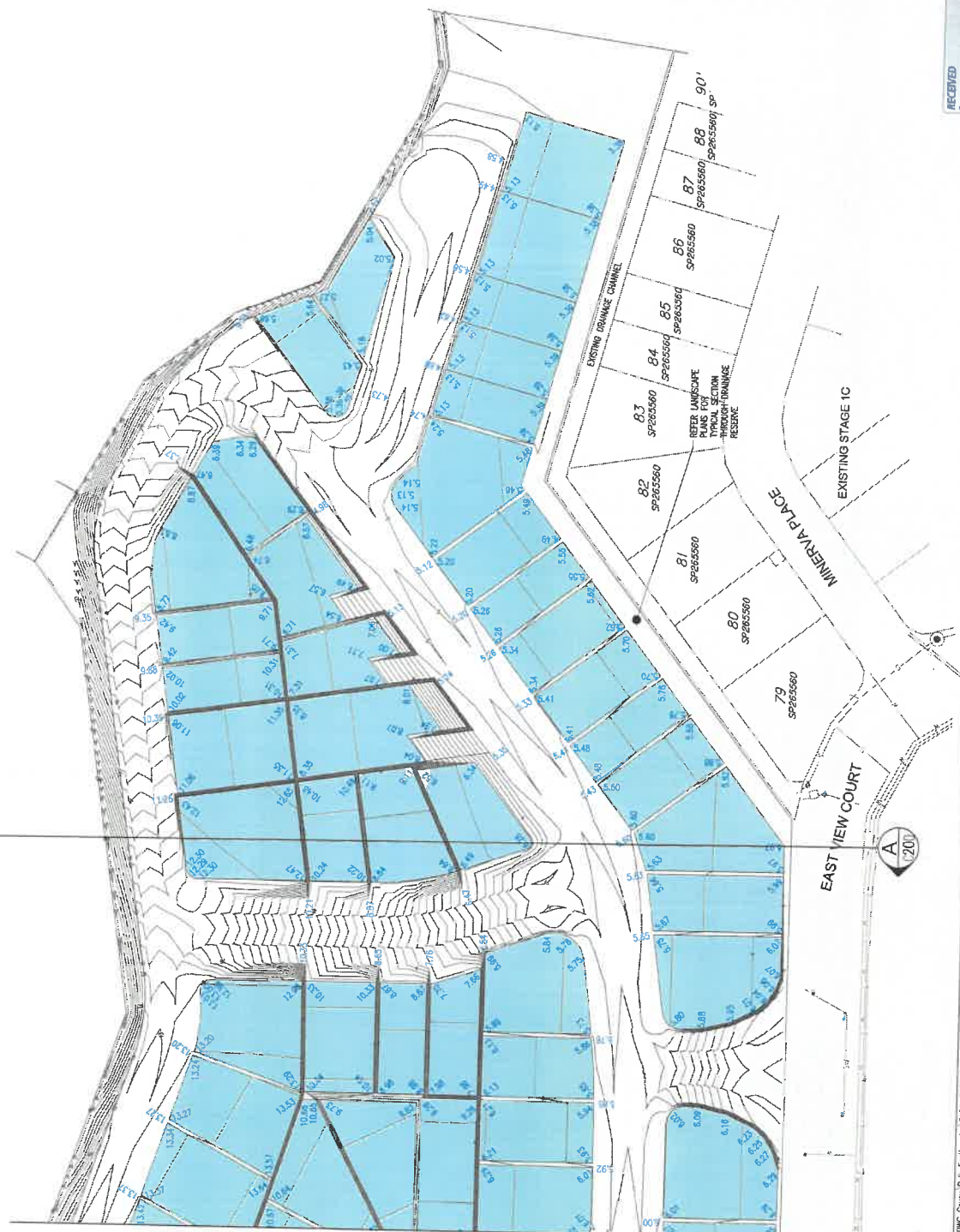
Modelled : DM    Design : CT    Drawn : BU

Current Stage : BULK EARTHWORKS

Project : 162011 Steel No. C100

Serial Ref : C130-C151 **EXAMINATIONS** Issue : **A**

NOTE: LOT BOUNDARIES ARE INDICATIVE ONLY AND SUBJECT TO FUTURE RAL APPROVAL.



SEE PLAN C101 FOR CONTINUATION

D: QJBS 16 162011 DWG Covey Bulk Earthworks C100-C101 EARTHWORKS PLANS.dwg

03/21/2016

THE INFORMATION PROVIDED ON THIS LAYOUT PLAN IS APPROXIMATE ONLY AND INTENDED AS A GUIDE TO ASSIST IN THE INVESTIGATIONS OF CRIMINAL PUNISHMENTS. DIMENSIONS AND ANGLES ARE SUBJECT TO SURVEY AND MAY VARY. THE DEVELOPER HAS USED REASONABLE EFFORTS TO ENSURE THAT THE INFORMATION IN THIS DOCUMENT IS ACCURATE, BUT ACCEPTS NO RESPONSIBILITY FOR DECLARING AN UNLIMITED IN RESPECT OF ANY IMPROPER ACCURACIES OR MISSTATEMENTS IN THE DOCUMENT. INTERESTED PURCHASERS SHOULD MAKE THEIR OWN ENQUIRIES TO VERIFY THE ACCURACY OF INFORMATION CONTAINED IN THE DOCUMENT.



SCALE 1:1000 (A3)

Check all dimensions before commencement of work.  
Check Site boundary dimensions from the Title plans.  
Check Building Boundary clearances by set out.  
Notwithstanding the information supplied on this drawing, the location, depth and extent of underground or overhead services are to be confirmed and protected as site by the contractor prior to commencement of works.

Issue Date	Description	By
12-07-10	DRIFT BSSK	BV

Drawing Title -  
EARTHWORKS PLAN  
SHEET 2

Project -  
PARKLAKES 2 ESTATE  
PRECINCT R3 STAGES  
12 & 13

Client -  
PARKLAKES II  
DEVELOPMENTS PTY  
TD

3 KIRRA ROAD, BLI BLI



24 DUPORTH AVENUE  
PO BOX 16 MAROONTHORPE QLD 4558  
MAIL: [engineers@coney.com.au](mailto:engineers@coney.com.au)  
(07) 5443 7777 Fax (07) 5443 7577

proved;

VIN COVEY Bldg. CTGing. MEAL, ASPENAC, R0601823  
RIS CAUS R0601823

Method	DM	Discrete	or	...
...	...	...	...	...

Date: 1:1000 (A3)      Date: JUN 19  
 Uram: CJ      Uram: BU

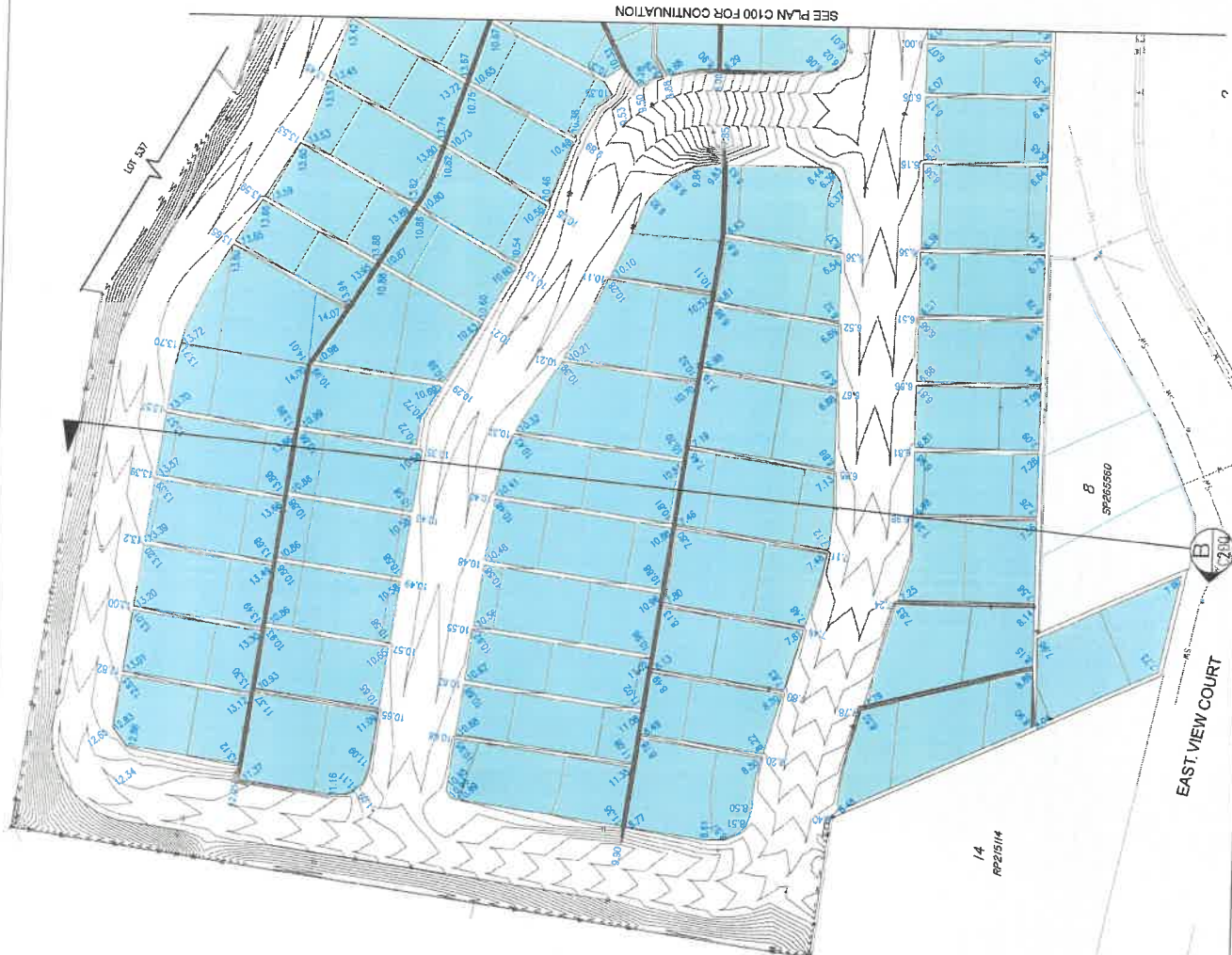
Document Stage : BULK EARTHWORKS

Project : 162011 Sheet No. C101

Critical Ref : C100-C101 EXAMINATIONS  
Issue : A

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shipment and the site specified.



SEE PLAN C100 FOR CONTINUATION

EAST. VIEW COURT

14  
RP215114

8  
265560



## LEGEND

PROPOSED LOT PAD

**10.62 PROPOSED PAD/LOT LEVEL**

STAGE BOUNDARY

\*NOTE: LOT BOUNDARIES ARE INDICATIVE ONLY AND SUBJECT TO FUTURE RAL APPROVAL.

Accession

RECEIVED

7: QJOBS 16 162011 DWG Covey Bulk Earthworks C100-C101 EARTHMOBILS PLANS.dwg









## Appendix 2

### Field Density Reports

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Form No: W182 – Version 2 (30/06/2020)



## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	13/12/2019
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	DS
Report Number	1	Page	1 of 1
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W19/20935	W19/20936	W19/20937
Test Location	Lot 495	Lot 495	Lot 495
	Centre Lot	Front Centre Lot	Rear Centre Lot
	1.5m Below FL	2.7m Below FL	0.8m Below FL
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	13-Dec-19	13-Dec-19	13-Dec-19
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	1.987	2.038	2.058
Insitu Moisture Content (%)	18.5	16.2	14.1
PCWD (t/m <sup>3</sup> )	2.053	2.099	2.096
Peak Added Moisture (%)	+0.0	+0.0	+2.2
Moisture Correction (%)	+0.0	+0.0	+2.4
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>96.8</b>	<b>97.1</b>	<b>98.2</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #31678</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	6/12/2019
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	DW
Report Number	2	Page	1 of 1
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W19/21234	W19/21235	W19/21236
Test Location	Lot 443	Lot 444	Lot 445
	Centre of Lot	Centre of Lot	Centre of Lot
	0.8m Below FL	0.3m Below FL	0.6m Below FL
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	6-Dec-19	6-Dec-19	6-Dec-19
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	1.967	1.981	2.003
Insitu Moisture Content (%)	14.4	13.9	14.1
PCWD (t/m <sup>3</sup> )	1.990	1.994	1.999
Peak Added Moisture (%)	+0.3	+0.3	+0.3
Moisture Correction (%)	+0.3	+0.3	+0.3
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>98.8</b>	<b>99.4</b>	<b>100.2</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #32300</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	9/12/2019
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	DW
Report Number	3	Page	1 of 1
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W19/21314	W19/21315	
Test Location	Road 3	Road 3	
	Ch 78m	Ch 58m	
	0.8m Below FL	0.9m Below FL	
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	
Material Source	Onsite	Onsite	
Depth Tested	150	150	
Layer Thickness	300	300	
Date Tested	16-Dec-19	16-Dec-19	
Material Sampled	After Compaction	After Compaction	
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.020	1.962	
Insitu Moisture Content (%)	9.1	11.6	
PCWD (t/m <sup>3</sup> )	2.048	2.057	
Peak Added Moisture (%)	+2.2	+2.0	
Moisture Correction (%)	+2.5	+2.2	
Retaining Sieve (mm)	19.0	19.0	
Percentage Oversize (wet)	0.0	0.0	
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	
Assigned Value	No	No	
<b>HILF DENSITY RATIO (%)</b>	<b>98.6</b>	<b>95.4</b>	
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	
Degree of Compaction	95%	95%	
Remarks	<b>Docket #32757</b>		



## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	19/12/2019
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	MB
Report Number	4	Page	1 of 2
		Order No.	Kyle G.

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W19/21342	W19/21343	W19/21344
Test Location	Lot 497	Lots 496/497	Lots 496/497
	Rear Centre	Boundary Centre	Boundary Centre
	0.8m Below FL	2.1m Below FL	2.1m Below FL
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	19-Dec-19	19-Dec-19	19-Dec-19
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	1.948	1.891	1.969
Insitu Moisture Content (%)	25.9	26.7	25.2
PCWD (t/m <sup>3</sup> )	2.048	2.096	2.036
Peak Added Moisture (%)	+2.3	+2.2	+2.3
Moisture Correction (%)	+2.6	+2.4	+2.6
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>95.1</b>	<b>90.2</b>	<b>96.7</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #32711</b>		
		<b>FAIL</b>	<b>RETEST</b>

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	19/12/2019
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	MB
Report Number	5	Page	2 of 2
		Order No.	Kyle G.

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W19/21345		
Test Location	Lot 498		
	Front RHS		
	1.4m Below FL		
Layer / Elevation	Allotment Fill		
Material Source	Onsite		
Depth Tested	150		
Layer Thickness	300		
Date Tested	19-Dec-19		
Material Sampled	After Compaction		
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	1.974		
Insitu Moisture Content (%)	11.7		
PCWD (t/m <sup>3</sup> )	2.037		
Peak Added Moisture (%)	+2.2		
Moisture Correction (%)	+2.5		
Retaining Sieve (mm)	19.0		
Percentage Oversize (wet)	0.0		
Corrected PCWD (t/m <sup>3</sup> )	N/A		
Assigned Value	No		
<b>HILF DENSITY RATIO (%)</b>	<b>96.9</b>		
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard		
Degree of Compaction	95%		
Remarks			
	<b>Docket #32711</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	12/12/2019
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	DW
Report Number	6	Page	1 of 1
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W19/21346	W19/21347	W19/21348
Test Location	Lot 448	Lot 447	Lot 446
	Centre of Lot	Centre of Lot	Centre of Lot
	0.8m Below FL	0.8m Below FL	0.8m Below FL
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	12-Dec-19	12-Dec-19	12-Dec-19
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.010	1.939	1.951
Insitu Moisture Content (%)	8.9	12.5	12.0
PCWD (t/m <sup>3</sup> )	2.080	2.039	1.989
Peak Added Moisture (%)	+4.3	+1.1	+1.2
Moisture Correction (%)	+4.6	+1.3	+1.4
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>96.6</b>	<b>95.1</b>	<b>98.1</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #31657</b>		



## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	10/12/2019
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	7	Page	1 of 2
		Order No.	Kyle G.

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W19/21402	W19/21403	W19/21404
Test Location	Lot 452	Lot 452	Lot 452
	Centre	Front LHS	Front LHS
	0.35m Below FL	0.6m Below FL	0.9m Below FL
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	10-Dec-19	10-Dec-19	10-Dec-19
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	1.951	1.999	2.026
Insitu Moisture Content (%)	14.2	14.1	13.0
PCWD (t/m <sup>3</sup> )	2.052	2.065	2.057
Peak Added Moisture (%)	+2.2	+2.1	+3.3
Moisture Correction (%)	+2.5	+2.3	+3.6
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>95.1</b>	<b>96.8</b>	<b>98.5</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #31667</b>		



## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	10/12/2019
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	8	Page	2 of 2
		Order No.	Kyle G.

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W19/21405	W19/21406	W19/21407
Test Location	Lot 451	Lot 450	Lot 450
	Centre	Centre	Centre
	0.9m Below FL	0.4m Below FL	0.7m Below FL
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	10-Dec-19	10-Dec-19	10-Dec-19
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	1.950	1.962	1.946
Insitu Moisture Content (%)	20.4	23.1	26.6
PCWD (t/m <sup>3</sup> )	2.029	2.057	2.002
Peak Added Moisture (%)	-1.3	-2.1	-2.3
Moisture Correction (%)	-1.6	-2.6	-2.8
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>96.1</b>	<b>95.4</b>	<b>97.2</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #31667</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	12/12/2019
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	DW
Report Number	9	Page	1 of 1
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W19/21408	W19/21409	W19/21410
Test Location	Lot 447	Lot 448	Lot 449
	Centre of Lot	Centre of Lot	Centre of Lot
	0.2m Below FL	0.2m Below FL	0.2m Below FL
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	13-Dec-19	13-Dec-19	13-Dec-19
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.004	1.965	1.987
Insitu Moisture Content (%)	15.3	21.2	22.1
PCWD (t/m <sup>3</sup> )	2.079	1.997	2.028
Peak Added Moisture (%)	+1.1	-1.3	-1.2
Moisture Correction (%)	+1.3	-1.6	-1.5
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>96.4</b>	<b>98.4</b>	<b>98.0</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #31675</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	16/12/2019
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	DW
Report Number	10	Page	1 of 1
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W19/21411	W19/21412	W19/21413
Test Location	Lot 496	Lot 496/497	Lot 497
	Centre of Lot	Boundary	Front of Lot - Centre
	1.8m Below FL	1.9m Below FL	1.5m Below FL
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	16-Dec-19	16-Dec-19	16-Dec-19
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density ( $t/m^3$ )	2.040	1.981	1.962
Insitu Moisture Content (%)	12.1	15.9	12.4
PCWD ( $t/m^3$ )	2.077	2.042	2.040
Peak Added Moisture (%)	+4.3	+0.2	+4.1
Moisture Correction (%)	+4.6	+0.2	+4.5
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD ( $t/m^3$ )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>98.2</b>	<b>97.0</b>	<b>96.2</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #32705</b>		



## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	9/01/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JF
Report Number	11	Page	1 of 1
		Order No.	Kyle G.

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W19/21973	W19/21974	W19/21975
Test Location	Lots 477/476	Lots 477/476	Lot 478
	Centre	Centre	Left Front Corner
	0.3m Below FL	0.3m Below FL	0.5m Below FL
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	9-Jan-20	9-Jan-20	9-Jan-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	1.811	1.978	1.992
Insitu Moisture Content (%)	14.4	15.0	14.6
PCWD (t/m <sup>3</sup> )	2.049	2.055	2.038
Peak Added Moisture (%)	+2.2	+2.2	+2.2
Moisture Correction (%)	+2.4	+2.4	+2.5
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>88.4</b>	<b>96.3</b>	<b>97.7</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #31695</b>		
	<b>FAIL</b>	<b>RETEST</b>	

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	13/01/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	DS
Report Number	12	Page	1 of 1
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/151	W20/152	W20/153
Test Location	Lot 480	Lot 481	Lot 483
	Rear RHS	Rear Centre	Centre
	0.6m Below FL	0.5m Below FL	0.3m Below FL
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	13-Jan-20	13-Jan-20	13-Jan-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.025	2.006	1.964
Insitu Moisture Content (%)	16.6	16.5	16.4
PCWD (t/m <sup>3</sup> )	2.060	2.038	1.990
Peak Added Moisture (%)	+0.4	+0.3	+0.2
Moisture Correction (%)	+0.5	+0.3	+0.2
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>98.3</b>	<b>98.4</b>	<b>98.7</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #32717</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	29/01/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	DS
Report Number	13	Page	1 of 4
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/789	W20/790	W20/791
Test Location	Lot 449	Lot 448	Lot 447
	Rear Centre	Rear Centre	Rear Centre
	1.8m Below FL	1.9m Below FL	1.9m Below FL
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	29-Jan-20	29-Jan-20	29-Jan-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	1.974	2.018	2.045
Insitu Moisture Content (%)	15.1	19.3	11.3
PCWD (t/m <sup>3</sup> )	1.999	2.099	2.139
Peak Added Moisture (%)	+2.0	+2.0	+2.0
Moisture Correction (%)	+2.3	+2.2	+2.2
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>98.7</b>	<b>96.1</b>	<b>95.6</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #32977</b>		



## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	29/01/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	DS
Report Number	14	Page	2 of 4
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/792	W20/793	W20/794
Test Location	Lot 446	Lot 445	Lot 444
	Rear Centre	Rear Centre	Rear Centre
	1.8m Below FL	1.7m Below FL	1.9m Below FL
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	29-Jan-20	29-Jan-20	29-Jan-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.073	2.038	2.035
Insitu Moisture Content (%)	10.7	11.2	19.2
PCWD (t/m <sup>3</sup> )	2.105	2.089	2.091
Peak Added Moisture (%)	+2.0	+2.0	+2.0
Moisture Correction (%)	+2.2	+2.2	+2.2
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>98.5</b>	<b>97.6</b>	<b>97.3</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #32977</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	29/01/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	DS
Report Number	15	Page	3 of 4
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/795	W20/796	W20/797
Test Location	Lot 479	Lot 478	Lot 477
	Centre	Centre	Centre
	0.8m Below FL	0.8m Below FL	0.8m Below FL
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	29-Jan-20	29-Jan-20	29-Jan-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.122	2.088	2.081
Insitu Moisture Content (%)	17.8	17.5	17.9
PCWD (t/m <sup>3</sup> )	2.125	2.122	2.120
Peak Added Moisture (%)	+2.0	+2.0	+2.0
Moisture Correction (%)	+2.3	+2.2	+2.2
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>99.8</b>	<b>98.4</b>	<b>98.2</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #32977</b>		

Client:	Shadforth's Civil Pty Ltd			Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556			Date:	29/01/2020
Project:	Parklakes 2 Estate - Stages 12 & 13			Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld			Checked:	DS
Report Number	16	Page	4 of 4	Order No.	Kyle



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Date 10/02/2020



## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	31/01/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	DW
Report Number	17	Page	1 of 1
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/867	W20/868	W20/869
Test Location	Lot 450	Lot 448	Lot 446
	Centre	Centre	Centre
	0.8m Below FL	0.8m Below FL	0.8m Below FL
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	200	200	200
Date Tested	31-Jan-20	31-Jan-20	31-Jan-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.008	2.041	2.074
Insitu Moisture Content (%)	15.2	14.3	16.8
PCWD (t/m <sup>3</sup> )	2.089	2.095	2.138
Peak Added Moisture (%)	+3.2	+4.4	+2.3
Moisture Correction (%)	+3.5	+4.7	+2.5
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>96.1</b>	<b>97.4</b>	<b>97.0</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	Docket #32986		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	30/01/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	DW
Report Number	18	Page	1 of 2
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/877	W20/878	W20/879
Test Location	Lot 492	Lot 491	Lot 489
	Centre	Centre	Centre
	1.4m Below FL	0.7m Below FL	0.5m Below FL
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	250	250	250
Date Tested	30-Jan-20	30-Jan-20	30-Jan-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.190	2.077	1.994
Insitu Moisture Content (%)	8.6	11.6	2.1
PCWD (t/m <sup>3</sup> )	2.251	2.178	2.095
Peak Added Moisture (%)	+2.2	+0.9	+0.7
Moisture Correction (%)	+2.4	+1.0	+0.8
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>97.3</b>	<b>95.4</b>	<b>95.2</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #32981</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	30/01/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	DW
Report Number	19	Page	2 of 2
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/880	W20/881	W20/882
Test Location	Lot 451	Lot 449	Lot 447
	Rear Centre	Rear Centre	Rear Centre
	1.2m Below FL	0.7m Below FL	0.5m Below FL
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	250	250	250
Date Tested	30-Jan-20	30-Jan-20	30-Jan-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.131	2.088	2.094
Insitu Moisture Content (%)	7.3	6.8	7.4
PCWD (t/m <sup>3</sup> )	2.203	2.177	2.156
Peak Added Moisture (%)	+1.8	+2.3	+1.2
Moisture Correction (%)	+2.0	+2.5	+1.3
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>96.7</b>	<b>95.9</b>	<b>97.1</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #32981</b>		



## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	5/03/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	DW
Report Number	22A	Page	1 of 2
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/2378	W20/2379	W20/2380
Test Location	Lots 449/450	Lot 448	Lot 447
	Centre	Centre	Centre
	0.2m Below FL	0.2m Below FL	Final Level
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	5-Mar-20	5-Mar-20	5-Mar-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.033	2.041	2.106
Insitu Moisture Content (%)	6.7	6.9	7.8
PCWD (t/m <sup>3</sup> )	2.001	1.972	2.133
Peak Added Moisture (%)	+2.0	+3.8	+3.2
Moisture Correction (%)	+2.3	+4.2	+3.5
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	16.1	17.1	16.4
Corrected PCWD (t/m <sup>3</sup> )	2.064	2.079	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>98.4</b>	<b>98.2</b>	<b>98.7</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>This Report Replaces Report 22</b>		
	<b>Docket #32831</b>		



Dean Wagner - Authorised Signatory

Accreditation No: 15070

Accredited for compliance ISO/IEC 17025 - Testing

Date 9/11/2020

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	5/03/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	DW
Report Number	23	Page	2 of 2
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/2381	W20/2382	
Test Location	Lot 446	Lot 445	
	Centre	Centre	
	0.1m Below FL	0.2m Below FL	
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	
Material Source	Onsite	Onsite	
Depth Tested	150	150	
Layer Thickness	300	300	
Date Tested	5-Mar-20	5-Mar-20	
Material Sampled	After Compaction	After Compaction	
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.033	2.142	
Insitu Moisture Content (%)	6.9	7.2	
PCWD (t/m <sup>3</sup> )	2.033	2.150	
Peak Added Moisture (%)	+3.1	+2.2	
Moisture Correction (%)	+3.4	+2.4	
Retaining Sieve (mm)	19.0	19.0	
Percentage Oversize (wet)	19.9	0.0	
Corrected PCWD (t/m <sup>3</sup> )	2.087	N/A	
Assigned Value	No	No	
<b>HILF DENSITY RATIO (%)</b>	<b>97.4</b>	<b>99.6</b>	
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	
Degree of Compaction	95%	95%	
Remarks	<b>Docket #32831</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	1/04/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	24	Page	1 of 3
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/3152	W20/3153	W20/3154
Test Location	Lot 491	Lot 489	Lot 492
	Western End Centre	Southern End	Centre
	0.37m Below FL	0.2m Below FL	0.63m Below FL
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	1-Apr-20	1-Apr-20	1-Apr-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.101	2.062	1.949
Insitu Moisture Content (%)	5.8	10.2	11.6
PCWD (t/m <sup>3</sup> )	2.166	2.087	N/A
Peak Added Moisture (%)	+3.0	+3.0	N/A
Moisture Correction (%)	+3.2	+3.2	N/A
Retaining Sieve (mm)	37.5	37.5	37.5
Percentage Oversize (wet)	11.1	9.9	27.4
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>97.0</b>	<b>98.8</b>	<b>N/A</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>W20/3154 Untestable Due to Oversize</b>		
	<b>Docket #33474</b>		
	<b>Oversize</b>	<b>Oversize</b>	<b>Oversize</b>



PROOF ROLL RECORD

Client:	Shadforth's Civil Pty Ltd
Project:	Parklakes 2 – Stages 12 & 13
Date:	01/04/20
Job No:	J19/76
Area:	Lot 492 – 0.63m below FL
Method:	Tandem Axle Water Truck (Loaded)
Movement (Y/N):	No
Movement (mm):	0mm
Pass (Y/N):	Yes
Remarks:	N/A

Technician:	Patrick Ferris	Initials:	
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Lab Manager:	Jacob Jones	Initials:	
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W118

09/02/12

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	1/04/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	25	Page	2 of 3
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/3155	W20/3156	W20/3157
Test Location	Lot 452	Lot 452	Lot 479
	Rear LHS	Rear LHS	Front Centre
	0.2m Below FL	0.4m Below FL	0.65m Below FL
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	1-Apr-20	1-Apr-20	1-Apr-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.153	2.142	2.096
Insitu Moisture Content (%)	6.8	7.1	8.3
PCWD (t/m <sup>3</sup> )	2.179	2.164	2.121
Peak Added Moisture (%)	+3.0	+3.1	+3.1
Moisture Correction (%)	+3.2	+3.3	+3.3
Retaining Sieve (mm)	37.5	37.5	37.5
Percentage Oversize (wet)	12.2	15.2	6.1
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>98.8</b>	<b>99.0</b>	<b>98.8</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Oversize</b>		
	<b>Docket #33474</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	1/04/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	26	Page	3 of 3
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/3158	W20/3159	W20/3160
Test Location	Lot 478	Lot 477	Lot 476
	Front Centre	Front Centre	Front Centre
	0.75m Below FL	1.1m Below FL	1.1m Below FL
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	1-Apr-20	1-Apr-20	1-Apr-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.143	2.089	2.058
Insitu Moisture Content (%)	9.7	10.1	9.4
PCWD (t/m <sup>3</sup> )	2.160	2.110	2.085
Peak Added Moisture (%)	+2.2	+2.2	+2.5
Moisture Correction (%)	+2.4	+2.4	+2.8
Retaining Sieve (mm)	37.5	37.5	37.5
Percentage Oversize (wet)	12.3	12.7	9.8
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>99.2</b>	<b>99.0</b>	<b>98.7</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Oversize</b>		
	<b>Docket #33474</b>		



## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	15/04/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	27	Page	1 of 2
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/3751	W20/3752	W20/3753
Test Location	Lots 477/76	Lots 479/478	Lots 482/481
	Boundary	Boundary	Boundary
	Final Level	Final Level	Final Level
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	15-Apr-20	15-Apr-20	15-Apr-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.038	1.998	2.083
Insitu Moisture Content (%)	5.3	6.1	7.5
PCWD (t/m <sup>3</sup> )	2.059	2.012	2.102
Peak Added Moisture (%)	+2.2	+2.2	+2.2
Moisture Correction (%)	+2.4	+2.5	+2.4
Retaining Sieve (mm)	37.5	37.5	37.5
Percentage Oversize (wet)	10.6	9.5	7.5
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>99.0</b>	<b>98.8</b>	<b>99.1</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #33909</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	15/04/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	28	Page	2 of 2
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/3754		
Test Location	Lot 480		
	Boundary Centre		
	Final Level		
Layer / Elevation	<b>Allotment Fill</b>		
Material Source	Onsite		
Depth Tested	150		
Layer Thickness	300		
Date Tested	15-Apr-20		
Material Sampled	After Compaction		
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.101		
Insitu Moisture Content (%)	5.8		
PCWD (t/m <sup>3</sup> )	2.129		
Peak Added Moisture (%)	+2.4		
Moisture Correction (%)	+2.6		
Retaining Sieve (mm)	37.5		
Percentage Oversize (wet)	6.5		
Corrected PCWD (t/m <sup>3</sup> )	N/A		
Assigned Value	No		
<b>HILF DENSITY RATIO (%)</b>	<b>98.7</b>		
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard		
Degree of Compaction	95%		
Remarks			
	<b>Docket #33909</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	14/04/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	29	Page	1 of 1
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/3755	W20/3756	W20/3757
Test Location	Lot 476	Lot 477	Lot 478
	Centre	Centre	Centre
	0.7m Below FL	0.5m Below FL	0.5m Below FL
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	14-Apr-20	14-Apr-20	14-Apr-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.034	2.025	2.142
Insitu Moisture Content (%)	11.4	10.1	7.6
PCWD (t/m <sup>3</sup> )	2.090	2.053	N/A
Peak Added Moisture (%)	+2.5	+2.3	N/A
Moisture Correction (%)	+2.7	+2.6	N/A
Retaining Sieve (mm)	37.5	37.5	37.5
Percentage Oversize (wet)	14.4	15.0	38.5
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>97.3</b>	<b>98.6</b>	<b>N/A</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>W20/3757 Untestable due to oversize</b>		
	<b>Docket #33908</b>		



PROOF ROLL RECORD

Client:	Shadforth's Civil Pty Ltd
Project:	Parklakes 2 – Stages 12 & 13
Date:	14/04/20
Job No:	J19/76
Area:	Lot 478 – 0.8m below FL
Method:	Tandem Axle Water Truck (Loaded)
Movement (Y/N):	No
Movement (mm):	0mm
Pass (Y/N):	Yes
Remarks:	N/A

Technician:	Patrick Ferris	Initials:	
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Lab Manager:	Jacob Jones	Initials:	
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W118

09/02/12

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	22/04/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	30A	Page	1 of 1
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/4566	W20/4567	W20/4568
Test Location	Lot 494	Lot 493	Lot 492
	Centre Lot	Centre Lot	Centre Lot
	0.5m Below FL	0.4m Below FL	0.3m Below FL
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	22-Apr-20	22-Apr-20	22-Apr-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.088	2.018	2.073
Insitu Moisture Content (%)	7.2	7.7	7.8
PCWD (t/m <sup>3</sup> )	2.095	2.035	2.102
Peak Added Moisture (%)	+2.3	+2.3	+2.5
Moisture Correction (%)	+2.5	+2.6	+2.7
Retaining Sieve (mm)	37.5	37.5	37.5
Percentage Oversize (wet)	14.0	14.7	9.8
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>99.7</b>	<b>99.2</b>	<b>98.6</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>B Mould Used</b>		
	<b>Docket #33982</b>		
	<b>This Report is Replaces Report 30</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	30/04/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	31	Page	1 of 2
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/5153	W20/5154	W20/5155
Test Location	Lot 516	Lot 518	Lot 510
	Centre Lot	Centre Lot	Centre Lot
	1.8m Below FL	2.6m Below FL	2.5m Below FL
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Imported	Imported	Imported
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	30-Apr-20	30-Apr-20	30-Apr-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.081	2.024	2.092
Insitu Moisture Content (%)	18.5	18.1	15.8
PCWD (t/m <sup>3</sup> )	2.095	2.098	2.110
Peak Added Moisture (%)	+0.3	+0.2	+0.4
Moisture Correction (%)	+0.4	+0.2	+0.5
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>99.3</b>	<b>98.9</b>	<b>99.1</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #34109</b>		



## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	30/04/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	32	Page	2 of 2
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/5156		
Test Location	Lot 520		
	Centre Lot		
	2.3m Below FL		
Layer / Elevation	Allotment Fill		
Material Source	Imported		
Depth Tested	150		
Layer Thickness	300		
Date Tested	30-Apr-20		
Material Sampled	After Compaction		
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.079		
Insitu Moisture Content (%)	15.7		
PCWD (t/m <sup>3</sup> )	2.110		
Peak Added Moisture (%)	+0.3		
Moisture Correction (%)	+0.4		
Retaining Sieve (mm)	19.0		
Percentage Oversize (wet)	0.0		
Corrected PCWD (t/m <sup>3</sup> )	N/A		
Assigned Value	No		
<b>HILF DENSITY RATIO (%)</b>	<b>98.5</b>		
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard		
Degree of Compaction	95%		
Remarks	<b>Docket #34109</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	1/05/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	33	Page	1 of 2
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/5157	W20/5158	W20/5159
Test Location	Lot 486	Lot 487	Lot 509
	Centre Lot	Centre Lot	1.7m Below FL
	0.9m Below FL	1.2m Below FL	
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Imported	Imported	Imported
Depth Tested	150	150	150
Layer Thickness	200	200	200
Date Tested	1-May-20	1-May-20	1-May-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.055	1.980	1.999
Insitu Moisture Content (%)	15.5	18.7	16.8
PCWD (t/m <sup>3</sup> )	2.112	2.000	2.008
Peak Added Moisture (%)	+0.4	+0.2	+0.3
Moisture Correction (%)	+0.5	+0.2	+0.3
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>97.3</b>	<b>99.0</b>	<b>99.6</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #33913</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	1/05/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	34	Page	2 of 2
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1
Sample Method	AS 1289 1.2.1
Lab Number	W20/5190
Test Location	Lot 510
	Centre Lot
	1.9m Below FL
Layer / Elevation	Allotment Fill
Material Source	Imported
Depth Tested	150
Layer Thickness	200
Date Tested	1-May-20
Material Sampled	After Compaction
<b>Test Results</b>	
Insitu Wet Density (t/m <sup>3</sup> )	2.012
Insitu Moisture Content (%)	17.1
PCWD (t/m <sup>3</sup> )	2.033
Peak Added Moisture (%)	+0.3
Moisture Correction (%)	+0.3
Retaining Sieve (mm)	19.0
Percentage Oversize (wet)	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A
Assigned Value	No
<b>HILF DENSITY RATIO (%)</b>	<b>99.0</b>
<b>MOISTURE VARIATION (%)</b>	
Compaction Type	Standard
Degree of Compaction	95%
Remarks	
	Docket #33913



## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	5/05/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JJ
Report Number	35	Page	1 of 3
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/5224	W20/5225	W20/5226
Test Location	Lot 510	Lot 511	Lot 512
	Centre	Centre	Centre
	1.6m Below FL	2.1m	2.1m Below FL
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Imported	Imported	Imported
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	5-May-20	5-May-20	5-May-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	1.988	2.078	2.046
Insitu Moisture Content (%)	22.7	8.9	17.3
PCWD (t/m <sup>3</sup> )	2.075	2.176	2.131
Peak Added Moisture (%)	+0.0	+2.2	+0.0
Moisture Correction (%)	+0.0	+2.4	+0.0
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>95.8</b>	<b>95.5</b>	<b>96.0</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #33922</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	5/05/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JJ
Report Number	36	Page	2 of 3
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/5227	W20/5228	W20/5229
Test Location	Lot 521	Lot 522	Lot 523
	Centre	Centre	Centre
	1.8m Below FL	1.6m Below FL	1.6m Below FL
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Imported	Imported	Imported
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	5-May-20	5-May-20	5-May-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	1.983	1.976	2.021
Insitu Moisture Content (%)	15.1	15.8	14.7
PCWD (t/m <sup>3</sup> )	2.068	2.056	2.116
Peak Added Moisture (%)	+0.0	+0.0	+0.0
Moisture Correction (%)	+0.0	+0.0	+0.0
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>95.9</b>	<b>96.1</b>	<b>95.5</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #33922</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	5/05/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JJ
Report Number	37	Page	3 of 3
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/5230		
Test Location	Lot 519		
	Centre		
	1.7m Below FL		
Layer / Elevation	<b>Allotment Fill</b>		
Material Source	Imported		
Depth Tested	150		
Layer Thickness	300		
Date Tested	5-May-20		
Material Sampled	After Compaction		
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.008		
Insitu Moisture Content (%)	16.9		
PCWD (t/m <sup>3</sup> )	2.100		
Peak Added Moisture (%)	+0.0		
Moisture Correction (%)	+0.0		
Retaining Sieve (mm)	19.0		
Percentage Oversize (wet)	0.0		
Corrected PCWD (t/m <sup>3</sup> )	N/A		
Assigned Value	No		
<b>HILF DENSITY RATIO (%)</b>	<b>95.6</b>		
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard		
Degree of Compaction	95%		
Remarks			
	<b>Docket #33922</b>		



## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	29/04/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	39	Page	1 of 2
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/5290	W20/5291	W20/5292
Test Location	Lot 534	Lot 517	Lot 516
	Front Centre	Centre	Centre
	2.25m Below FL	2.44m Below FL	2.4m Below FL
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Blended	Blended	Blended
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	29-Apr-20	29-Apr-20	29-Apr-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.037	2.068	2.079
Insitu Moisture Content (%)	13.1	13.5	15.9
PCWD (t/m <sup>3</sup> )	2.109	2.154	2.175
Peak Added Moisture (%)	+0.1	+0.1	+0.0
Moisture Correction (%)	+0.1	+0.1	+0.0
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>96.6</b>	<b>96.0</b>	<b>95.6</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #34106</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	29/04/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	40	Page	2 of 2
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/5293	W20/5294	W20/5295
Test Location	Lot 509	Lot 510	Lot 519
	Front Centre	Front Centre	Centre
	2.0m Below FL	2.3m Below FL	2.77m Below FL
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Blended	Blended	Blended
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	29-Apr-20	29-Apr-20	29-Apr-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.058	2.059	2.027
Insitu Moisture Content (%)	11.1	11.8	17.0
PCWD (t/m <sup>3</sup> )	2.119	2.122	2.114
Peak Added Moisture (%)	+1.2	+1.2	+0.0
Moisture Correction (%)	+1.3	+1.3	+0.0
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>97.1</b>	<b>97.0</b>	<b>95.9</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #34106</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	11/05/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JJ
Report Number	42	Page	1 of 2
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/5601	W20/5602	W20/5603
Test Location	Lot 516	Lot 516	Lot 515
	Centre Lot	Centre Lot	Centre Lot
	1.3m Below FL	1.3m Below FL	2.7m Below FL
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Blended	Blended	Blended
Depth Tested	150	150	150
Layer Thickness	200	200	200
Date Tested	11-May-20	11-May-20	11-May-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	1.789	2.066	2.055
Insitu Moisture Content (%)	14.2	12.8	13.2
PCWD (t/m <sup>3</sup> )	2.047	2.078	2.078
Peak Added Moisture (%)	+1.7	+3.7	+2.5
Moisture Correction (%)	+1.9	+4.0	+2.7
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>87.4</b>	<b>99.4</b>	<b>98.9</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #33933</b>		
	<b>FAIL</b>	<b>RETEST</b>	



Client:	Shadforth's Civil Pty Ltd			Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556			Date:	11/05/2020
Project:	Parklakes 2 Estate - Stages 12 & 13			Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld			Checked:	JJ
Report Number	43	Page	2 of 2	Order No.	Kyle



Accredited for compliance ISO/IEC 17025 - Testing

14/12/2018

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	12/05/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	44A	Page	1 of 1
		Order No.	Kyle G

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/5605	W20/5606	
Test Location	Lot 492	Lot 494	
	Front Centre	Front Centre	
	2.4m Below FL	2.3m Below FL	
Layer / Elevation	Allotment Fill	Allotment Fill	
Material Source	Blended	Blended	
Depth Tested	150	150	
Layer Thickness	300	300	
Date Tested	12-May-20	12-May-20	
Material Sampled	After Compaction	After Compaction	
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.028	2.040	
Insitu Moisture Content (%)	7.6	7.2	
PCWD (t/m <sup>3</sup> )	2.107	2.077	
Peak Added Moisture (%)	+4.3	+4.3	
Moisture Correction (%)	+4.6	+4.6	
Retaining Sieve (mm)	37.5	37.5	
Percentage Oversize (wet)	5.1	7.2	
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	
Assigned Value	No	No	
<b>HILF DENSITY RATIO (%)</b>	<b>96.3</b>	<b>98.2</b>	
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	
Degree of Compaction	95%	95%	
Remarks	<b>B Mould Used</b>		
	<b>Docket #33934</b>		
	<b>This Report Replaces Report 44</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	13/05/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	45	Page	1 of 1
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/5607	W20/5608	W20/5609
Test Location	Adjacent Lot 496	Adjacent Lot 493	Adjacent Lot 491
	Sparrow Street	0.96m Below FL	2.3m Below FL
	1.65m Below FL		
Layer / Elevation	<b>Embankment Fill</b>	<b>Embankment Fill</b>	<b>Embankment Fill</b>
Material Source	Blended	Blended	Blended
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	13-May-20	13-May-20	13-May-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.091	1.975	1.997
Insitu Moisture Content (%)	7.2	14.4	8.3
PCWD (t/m <sup>3</sup> )	2.161	2.027	2.033
Peak Added Moisture (%)	+2.4	+2.3	+2.3
Moisture Correction (%)	+2.6	+2.6	+2.6
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>96.8</b>	<b>97.4</b>	<b>98.2</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #33941</b>		



## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	13/05/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	46	Page	1 of 1
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/5610	W20/5611	
Test Location	Lot 492	Lot 495	
	Centre Lot	Centre Lot	
	1.5m Below FL	1.8m Below FL	
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	
Material Source	Blended	Blended	
Depth Tested	150	150	
Layer Thickness	300	300	
Date Tested	13-May-20	13-May-20	
Material Sampled	After Compaction	After Compaction	
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.055	2.061	
Insitu Moisture Content (%)	7.9	7.5	
PCWD (t/m <sup>3</sup> )	2.156	2.165	
Peak Added Moisture (%)	+2.3	+2.3	
Moisture Correction (%)	+2.5	+2.5	
Retaining Sieve (mm)	19.0	19.0	
Percentage Oversize (wet)	0.0	0.0	
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	
Assigned Value	No	No	
<b>HILF DENSITY RATIO (%)</b>	<b>95.3</b>	<b>95.2</b>	
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	
Degree of Compaction	95%	95%	
Remarks			
	<b>Docket #33941</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	14/05/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	47A	Page	1 of 1
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/5412	W20/5613	W20/5614
Test Location	Sparrow Street	Sparrow Street	Sparrow Street
	Ch 145m - CL	Ch 180m - CL	Ch 209m - CL
	1.4m Below FL	1.8m Below FL	1.9m Below FL
Layer / Elevation	<b>Embankment Fill</b>	<b>Embankment Fill</b>	<b>Embankment Fill</b>
Material Source	Blended	Blended	Blended
Depth Tested	150	150	150
Layer Thickness	200	200	200
Date Tested	14-May-20	14-May-20	14-May-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.125	2.134	2.121
Insitu Moisture Content (%)	11.6	12.0	8.5
PCWD (t/m <sup>3</sup> )	2.230	2.242	2.230
Peak Added Moisture (%)	+2.2	+2.1	+2.2
Moisture Correction (%)	+2.4	+2.3	+2.4
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>95.3</b>	<b>95.2</b>	<b>95.1</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>This Report Replaces Report 47</b>		
	<b>Docket #33944</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	15/05/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	48	Page	1 of 1
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/5615	W20/5616	W20/5617
Test Location	Sparrow Street	Sparrow Street	Sparrow Street
	CH 150	CH 90	CH 10
	1.1m Below FL	0.8m Below FL	0.35m Below FL
Layer / Elevation	<b>Embankment Fill</b>	<b>Embankment Fill</b>	<b>Embankment Fill</b>
Material Source	Blended	Blended	Blended
Depth Tested	150	150	150
Layer Thickness	200	200	200
Date Tested	15-May-20	15-May-20	15-May-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.131	2.153	2.204
Insitu Moisture Content (%)	8.6	11.5	7.1
PCWD (t/m <sup>3</sup> )	2.140	2.200	2.230
Peak Added Moisture (%)	+4.5	+4.2	+4.3
Moisture Correction (%)	+4.8	+4.4	+4.5
Retaining Sieve (mm)	37.5	37.5	37.5
Percentage Oversize (wet)	8.5	10.1	5.1
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>99.6</b>	<b>97.9</b>	<b>98.8</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Upsize - B Mould Used</b>		
	<b>Docket #33947</b>		



## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	29/05/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	52	Page	1 of 1
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/6384	W20/6385	W20/6386
Test Location	Lot 516	Lot 517	Lot 520
	Front Centre Lot	Centre Lot	Centre Lot
	0.3m Below FL	0.5m Below FL	0.95m Below FL
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Imported	Imported	Imported
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	29-May-20	29-May-20	29-May-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.078	2.012	2.100
Insitu Moisture Content (%)	20.7	22.3	22.5
PCWD (t/m <sup>3</sup> )	2.112	2.046	2.130
Peak Added Moisture (%)	+0.2	+0.3	+0.3
Moisture Correction (%)	+0.2	+0.3	+0.3
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>98.4</b>	<b>98.3</b>	<b>98.6</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #34146</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	27/05/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	53	Page	1 of 1
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/6387	W20/6388	W20/6389
Test Location	Lot 519	Lot 519	Lot 518
	North Centre	West Centre	Rear Centre
	Final Level	1.3m Below FL	2.3m Below FL
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Blended	Blended	Blended
Depth Tested	150	150	150
Layer Thickness	250	250	250
Date Tested	27-May-20	27-May-20	27-May-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.122	2.084	2.023
Insitu Moisture Content (%)	15.2	19.1	18.4
PCWD (t/m <sup>3</sup> )	2.134	2.097	2.057
Peak Added Moisture (%)	+0.0	+0.0	+0.0
Moisture Correction (%)	+0.0	+0.0	+0.0
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>99.4</b>	<b>99.4</b>	<b>98.3</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #34135</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	27/05/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	54	Page	1 of 1
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/6390	W20/6391	W20/6392
Test Location	Adjacent Lot 519	Adjacent Lot 521	Adjacent Lot 523
	Centre	Centre	Centre
	0.55m Below FL	0.74m Below FL	0.82m Below FL
Layer / Elevation	<b>Embankment Fill</b>	<b>Embankment Fill</b>	<b>Embankment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	27-May-20	27-May-20	27-May-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.217	2.086	2.099
Insitu Moisture Content (%)	7.6	8.1	8.4
PCWD (t/m <sup>3</sup> )	2.280	2.103	2.112
Peak Added Moisture (%)	+0.2	+0.3	+0.3
Moisture Correction (%)	+0.2	+0.3	+0.3
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>97.2</b>	<b>99.2</b>	<b>99.4</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #34138</b>		



## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	26/05/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	55	Page	1 of 1
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/6916	W20/6917	W20/6918
Test Location	Lor 519	Lot 520	Lot 521
	Centre Line	Centre Line	Centre Line
	1.94m Below FL	2.16m Below FL	1.03m Below FL
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Imported	Imported	Imported
Depth Tested	150	150	150
Layer Thickness	200	200	200
Date Tested	26-May-20	26-May-20	26-May-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.002	2.076	2.033
Insitu Moisture Content (%)	22.3	20.4	19.6
PCWD (t/m <sup>3</sup> )	2.052	2.095	2.057
Peak Added Moisture (%)	+0.0	+0.0	+0.0
Moisture Correction (%)	+0.0	+0.0	+0.0
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>97.6</b>	<b>99.1</b>	<b>98.8</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #34132</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	11/06/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	56	Page	1 of 1
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/6919	W20/6920	W20/6921
Test Location	Lot 465	Lot 464	Lot 463
	Centre	Centre	Centre
	Final Level	Final Level	Final Level
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	11-Jun-20	11-Jun-20	11-Jun-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.088	2.046	2.033
Insitu Moisture Content (%)	10.1	10.1	20.3
PCWD (t/m <sup>3</sup> )	2.127	2.120	2.070
Peak Added Moisture (%)	+4.0	+4.2	+4.2
Moisture Correction (%)	+4.3	+4.3	+4.3
Retaining Sieve (mm)	37.5	37.5	37.5
Percentage Oversize (wet)	12.5	12.4	11.8
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>98.2</b>	<b>96.5</b>	<b>98.2</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #34885</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	2/06/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	57	Page	1 of 1
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/7029	W20/7030	W20/7031
Test Location	Lot 510	Lot 512	Lot 514
	Front Centre Line	Front Centre Line	Front Centre Line
	0.98m Below FL	1.0m Below FL	0.95m Below FL
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Imported	Imported	Imported
Depth Tested	150	150	150
Layer Thickness	250	250	250
Date Tested	2-Jun-20	2-Jun-20	2-Jun-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	1.955	2.051	1.988
Insitu Moisture Content (%)	22.5	21.8	22.0
PCWD (t/m <sup>3</sup> )	2.058	2.108	2.073
Peak Added Moisture (%)	+0.0	+0.0	+0.0
Moisture Correction (%)	+0.0	+0.0	+0.0
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>95.0</b>	<b>97.3</b>	<b>95.9</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #34854</b>		



## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	1/06/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	58	Page	1 of 1
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/7032	W20/7033	W20/7034
Test Location	Lot 524	Lot 520	Lot 522
	Centre Line	Centre Line	Centre Line
	Final Level	0.11m Below FL	1.0m Below FL
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Blended	Blended	Blended
Depth Tested	150	150	150
Layer Thickness	200	200	200
Date Tested	1-Jun-20	1-Jun-20	1-Jun-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.046	2.115	1.980
Insitu Moisture Content (%)	20.3	21.8	18.6
PCWD (t/m <sup>3</sup> )	2.103	2.111	2.060
Peak Added Moisture (%)	+0.0	+0.0	+0.0
Moisture Correction (%)	+0.0	+0.0	+0.0
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>97.3</b>	<b>100.2</b>	<b>96.1</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #34854</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	4/06/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	59	Page	1 of 1
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/7038	W20/7039	W20/7040
Test Location	Lot 513	Lot 514	Lot 515
	Front Left	Centre Line	Rear Right
	0.74m Below FL	0.7m Below FL	0.74m Below FL
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Imported	Imported	Imported
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	4-Jun-20	4-Jun-20	4-Jun-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.032	2.050	2.107
Insitu Moisture Content (%)	18.6	20.4	19.3
PCWD (t/m <sup>3</sup> )	2.078	2.116	2.111
Peak Added Moisture (%)	+0.0	+0.0	+0.0
Moisture Correction (%)	+0.0	+0.0	+0.0
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>97.8</b>	<b>96.9</b>	<b>99.8</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #34868</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	19/06/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	60	Page	1 of 1
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/7413	W20/7414	W20/7415
Test Location	Lot 465	Lot 466	Lot 466
	Rear Centre	Rear Centre	Centre
	Final Level	Final Level	Final Level
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	200	200	200
Date Tested	19-Jun-20	19-Jun-20	19-Jun-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.035	2.031	2.074
Insitu Moisture Content (%)	7.6	9.3	8.2
PCWD (t/m <sup>3</sup> )	2.068	2.077	2.110
Peak Added Moisture (%)	+2.2	+2.2	+2.5
Moisture Correction (%)	+2.4	+2.4	+2.7
Retaining Sieve (mm)	37.5	37.5	37.5
Percentage Oversize (wet)	11.0	12.0	12.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>98.4</b>	<b>97.8</b>	<b>98.3</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #34510</b>		



## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	25/06/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	61	Page	1 of 1
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/7857	W20/7858	W20/7859
Test Location	Lot 512	Lot 511	Lot 511
	Centre Line	Centre Line	Centre Line
	0.3m Below FL	0.3m Below FL	0.3m Below FL
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Imported	Imported	Imported
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	25-Jun-20	25-Jun-20	25-Jun-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	1.973	1.841	1.982
Insitu Moisture Content (%)	30.2	28.6	24.3
PCWD (t/m <sup>3</sup> )	2.040	2.016	2.037
Peak Added Moisture (%)	+0.0	+0.0	+0.0
Moisture Correction (%)	+0.0	+0.0	+0.0
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>96.7</b>	<b>91.3</b>	<b>97.3</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #34522</b>		
		<b>FAIL</b>	<b>RETEST</b>

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	1/07/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	64A	Page	1 of 1
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/8289	W20/8290	W20/8291
Test Location	Lot 453	Lot 454	Lot 455
	Front Left	Centre Lot	Centre Lot
	2.0m Below FL	2.1m Below FL	2.6m Below FL
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Blended	Blended	Blended
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	1-Jul-20	1-Jul-20	1-Jul-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.032	2.028	2.036
Insitu Moisture Content (%)	17.8	16.7	18.1
PCWD (t/m <sup>3</sup> )	2.099	2.110	2.108
Peak Added Moisture (%)	+1.2	+2.0	+1.7
Moisture Correction (%)	+1.3	+2.2	+1.9
Retaining Sieve (mm)	37.5	37.5	37.5
Percentage Oversize (wet)	12.9	17.2	14.3
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>96.8</b>	<b>96.1</b>	<b>96.6</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>B Mould Used</b>		
	<b>Docket #34895</b>		
	<b>This Report Replaces Report 64</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	6/07/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	65A	Page	1 of 2
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/8511	W20/8512	W20/8513
Test Location	Lot 513	Lot 510	Lot 509
	Centre	Front Centre	Centre
	Final Level	Final Level	Final Level
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Blended	Blended	Blended
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	6-Jul-20	6-Jul-20	6-Jul-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.033	2.091	1.956
Insitu Moisture Content (%)	21.8	22.4	24.6
PCWD (t/m <sup>3</sup> )	2.106	2.131	2.055
Peak Added Moisture (%)	+2.2	+2.7	+1.4
Moisture Correction (%)	+2.4	+2.9	+1.6
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>96.5</b>	<b>98.1</b>	<b>95.2</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>This Report Replaces Report 65</b>		
	<b>Docket #34551</b>		



## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	6/07/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	66	Page	2 of 2
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/8514	W20/8515	W20/8516
Test Location	Lot 508	Lot 511	Lot 512
	Final Level	Final Level	Final Level
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Blended	Blended	Blended
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	6-Jul-20	6-Jul-20	6-Jul-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.013	2.003	1.964
Insitu Moisture Content (%)	28.1	16.4	16.6
PCWD (t/m <sup>3</sup> )	2.069	2.065	2.059
Peak Added Moisture (%)	+1.0	+2.7	+2.2
Moisture Correction (%)	+1.1	+3.0	+2.5
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>97.3</b>	<b>97.0</b>	<b>95.4</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #34551</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	7/07/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JJ
Report Number	67	Page	1 of 2
		Order No.	Kyle G

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/8904	W20/8905	W20/8906
Test Location	Lot 454	Lot 454	Lot 454
	Centre Lot	Centre Lot	Centre Lot
	0.25m Below FL	0.5m Below FL	1.2m Below FL
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Blended	Blended	Blended
Depth Tested	150	150	150
Layer Thickness	250	250	250
Date Tested	7-Jul-20	7-Jul-20	7-Jul-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.022	1.994	2.055
Insitu Moisture Content (%)	21.0	22.7	17.8
PCWD (t/m <sup>3</sup> )	2.076	2.081	2.091
Peak Added Moisture (%)	+1.8	+1.7	+4.4
Moisture Correction (%)	+2.0	+1.9	+4.7
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>97.4</b>	<b>95.8</b>	<b>98.3</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #34559</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	7/07/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JJ
Report Number	68	Page	2 of 2
		Order No.	Kyle G

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/8907	W20/8908	W20/8909
Test Location	Lot 487	Lot 488	Lot 486
	Centre Lot	Centre Lot	Centre Lot
	Final Level	Final Level	Final Level
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Blended	Blended	Blended
Depth Tested	150	150	150
Layer Thickness	250	250	250
Date Tested	7-Jul-20	7-Jul-20	7-Jul-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	1.976	2.002	2.071
Insitu Moisture Content (%)	14.4	17.8	15.0
PCWD (t/m <sup>3</sup> )	2.056	2.088	2.139
Peak Added Moisture (%)	+4.3	+1.8	+3.8
Moisture Correction (%)	+4.6	+2.0	+4.1
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>96.1</b>	<b>95.9</b>	<b>96.8</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #34559</b>		



## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	21/07/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	70	Page	1 of 1
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/9800	W20/9801	W20/9802
Test Location	Black Swan	Black Swan	Black Swan
	Ch 900m	Ch 880m	Ch 860m
	2.1m Below FL	1.9m Below FL	1.7m Below FL
Layer / Elevation	<b>Embankment Fill</b>	<b>Embankment Fill</b>	<b>Embankment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	250	250	250
Date Tested	21-Jul-20	21-Jul-20	21-Jul-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.074	2.041	2.196
Insitu Moisture Content (%)	5.1	5.0	9.9
PCWD (t/m <sup>3</sup> )	2.114	2.126	2.147
Peak Added Moisture (%)	+2.9	+2.7	+1.2
Moisture Correction (%)	+3.2	+3.0	+1.3
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>98.1</b>	<b>96.0</b>	<b>102.3</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #34543</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	5/08/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	76	Page	1 of 1
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/10996	W20/10997	W20/10998
Test Location	Lot 498	Lot 499	Lot 497
	.250 Below FL	.280m Below FL	.31m Below FL
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Blended	Blended	Blended
Depth Tested	150	150	150
Layer Thickness	250	250	250
Date Tested	5-Aug-20	5-Aug-20	5-Aug-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.053	2.057	1.999
Insitu Moisture Content (%)	17.8	18.3	19.1
PCWD (t/m <sup>3</sup> )	2.106	2.086	2.033
Peak Added Moisture (%)	+0.8	+1.0	+0.5
Moisture Correction (%)	+0.9	+1.1	+0.6
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>97.5</b>	<b>98.6</b>	<b>98.3</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #34587</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	5/08/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	77	Page	1 of 1
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/10999	W20/11000	W20/11001
Test Location	Adjacent Lot 473	Adjacent Lot 472	Adjacent Lot 975
	0.6m Below FL	0.6m Below FL	0.75m Below FL
Layer / Elevation	Embankment Fill	Embankment Fill	Embankment Fill
Material Source	Blended	Blended	Blended
Depth Tested	150	150	150
Layer Thickness	250	250	250
Date Tested	5-Aug-20	5-Aug-20	5-Aug-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.065	2.073	2.003
Insitu Moisture Content (%)	7.1	8.5	9.5
PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Peak Added Moisture (%)	N/A	N/A	N/A
Moisture Correction (%)	N/A	N/A	N/A
Retaining Sieve (mm)	37.5	37.5	37.5
Percentage Oversize (wet)	42.3	39.8	45.8
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Untestable Due to Oversize</b>		
	<b>Docket #34587</b>		



## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	18/08/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	81	Page	1 of 5
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/11647	W20/11648	W20/11649
Test Location	Darter Terrace	Darter Terrace	Darter Terrace
	CH 40 - West Lane	CH 45 - Centre	CH 70 - Centre
	0.9m Below FL	0.8m Below FL	0.55m Below FL
Layer / Elevation	Embankment Fill	Embankment Fill	Embankment Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	250	250	250
Date Tested	18-Aug-20	18-Aug-20	18-Aug-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.217	2.248	2.189
Insitu Moisture Content (%)	3.1	3.5	3.9
PCWD (t/m <sup>3</sup> )	2.258	2.344	2.234
Peak Added Moisture (%)	+2.2	+2.4	+2.2
Moisture Correction (%)	+2.4	+2.6	+2.4
Retaining Sieve (mm)	37.5	37.5	37.5
Percentage Oversize (wet)	15.7	17.5	13.9
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>98.2</b>	<b>95.9</b>	<b>98.0</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Foreman Advised to Monitor Oversize Materials</b>		
	<b>Docket #35069</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	18/08/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	82	Page	2 of 5
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/11650	W20/11651	W20/11652
Test Location	Darter Terrace	Darter Terrace	Darter Terrace
	CH 100	CH 80	CH 60
	0.7m Below FL	0.82m Below FL	1.4m Below FL
Layer / Elevation	Embankment Fill	Embankment Fill	Embankment Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	250	250	250
Date Tested	18-Aug-20	18-Aug-20	18-Aug-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.219	2.152	2.265
Insitu Moisture Content (%)	5.2	6.0	6.1
PCWD (t/m <sup>3</sup> )	2.292	2.242	2.382
Peak Added Moisture (%)	+1.7	+2.1	+2.0
Moisture Correction (%)	+1.8	+2.4	+2.1
Retaining Sieve (mm)	37.5	37.5	37.5
Percentage Oversize (wet)	16.0	14.8	15.1
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>96.8</b>	<b>96.0</b>	<b>95.1</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Foreman Advised to Monitor Oversize Materials</b>		
	<b>Docket #35069</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	18/08/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	83	Page	3 of 5
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/11653	W20/11654	W20/11655
Test Location	Darter Terrace	Black Swan Circuit	Black Swan Circuit
	CH 90 - Centre	CH 930	CH 900
	0.5m Below FL	0.65m Below FL	0.72m Below FL
Layer / Elevation	<b>Embankment Fill</b>	<b>Embankment Fill</b>	<b>Embankment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	250	250	250
Date Tested	18-Aug-20	18-Aug-20	18-Aug-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.264	2.099	2.169
Insitu Moisture Content (%)	5.1	6.2	6.5
PCWD (t/m <sup>3</sup> )	2.269	2.198	2.262
Peak Added Moisture (%)	+2.3	+1.3	+2.3
Moisture Correction (%)	+2.5	+1.4	+2.5
Retaining Sieve (mm)	37.5	37.5	37.5
Percentage Oversize (wet)	13.9	12.6	14.2
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>99.9</b>	<b>95.5</b>	<b>95.9</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Foreman Advised to Monitor Oversize Materials</b>		
	<b>Docket #35069</b>		



## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	18/08/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	84	Page	4 of 5
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/11656	W20/11657	W20/11658
Test Location	Black Swan Circuit	Black Swan Circuit	Black Swan Circuit
	CH 882 - Centre	CH 860 - Centre	CH 920 - Centre
	0.7m Below FL	0.5m Below FL	0.5m Below FL
Layer / Elevation	<b>Embankment Fill</b>	<b>Embankment Fill</b>	<b>Embankment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	250	250	250
Date Tested	18-Aug-20	18-Aug-20	18-Aug-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.203	2.254	2.163
Insitu Moisture Content (%)	6.1	3.3	3.4
PCWD (t/m <sup>3</sup> )	2.278	2.309	2.200
Peak Added Moisture (%)	+2.5	+4.2	+4.6
Moisture Correction (%)	+2.7	+4.4	+4.9
Retaining Sieve (mm)	37.5	37.5	37.5
Percentage Oversize (wet)	14.5	10.1	14.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>96.7</b>	<b>97.6</b>	<b>98.3</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Foreman Advised to Monitor Oversize Materials</b>		
	<b>Docket #35069</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	18/08/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	85	Page	5 of 5
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/11659	W20/11660	W20/11661
Test Location	Black Swan Circuit	Black Swan Circuit	Black Swan Circuit
	CH 660 - Centre	CH 675 - Centre	CH 700 - Centre
	0.8m Below FL	0.7m Below FL	0.55m Below FL
Layer / Elevation	<b>Embankment Fill</b>	<b>Embankment Fill</b>	<b>Embankment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	250	250	250
Date Tested	18-Aug-20	18-Aug-20	18-Aug-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.121	2.101	2.219
Insitu Moisture Content (%)	5.5	4.4	3.9
PCWD (t/m <sup>3</sup> )	2.212	2.189	2.292
Peak Added Moisture (%)	+3.1	+3.2	+3.3
Moisture Correction (%)	+3.3	+3.4	+3.5
Retaining Sieve (mm)	37.5	37.5	37.5
Percentage Oversize (wet)	11.6	12.5	9.2
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>95.9</b>	<b>96.0</b>	<b>96.8</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Foreman Advised to Monitor Oversize Materials</b>		
	<b>Docket #35069</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	3/08/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	93A	Page	1 of 1
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/11900	W20/11901	W20/11902
Test Location	Black Swan Circuit	Black Swan Circuit	Black Swan Circuit
	CH 680 - Centre	CH 695 - Centre	CH 705 - Centre
	1.2m Below FL	1.6m Below FL	1.4m Below FL
Layer / Elevation	Embankment Fill	Embankment Fill	Embankment Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	3-Aug-20	3-Aug-20	3-Aug-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.062	2.071	2.086
Insitu Moisture Content (%)	11.7	13.0	12.5
PCWD (t/m <sup>3</sup> )	2.142	2.105	2.121
Peak Added Moisture (%)	+2.3	+1.1	+2.2
Moisture Correction (%)	+2.5	+1.2	+2.4
Retaining Sieve (mm)	37.5	37.5	37.5
Percentage Oversize (wet)	12.8	18.2	14.1
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>96.3</b>	<b>98.4</b>	<b>98.3</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>B Mould Used</b>		
	<b>Docket #34580</b>		
	<b>This Report Replaces Report 93</b>		



## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	14/08/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number:	100	Page	1 of 1
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/11921	W20/11922	W20/11923
Test Location	Darter Terrace	Darter Terrace	Darter Terrace
	CH 62 - Centre	CH 85 - Centre	CH 100 - Centre
	1.8m Below FL	1.4m Below FL	1.0m Below FL
Layer / Elevation	<b>Embankment Fill</b>	<b>Embankment Fill</b>	<b>Embankment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	14-Aug-20	14-Aug-20	14-Aug-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.114	2.089	2.092
Insitu Moisture Content (%)	6.6	7.0	7.2
PCWD (t/m <sup>3</sup> )	2.153	2.121	2.137
Peak Added Moisture (%)	+4.1	+4.0	+4.0
Moisture Correction (%)	+4.4	+4.4	+4.4
Retaining Sieve (mm)	37.5	37.5	37.5
Percentage Oversize (wet)	12.3	10.4	10.6
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>98.2</b>	<b>98.5</b>	<b>97.9</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Client Advised to Monitor Oversize Materials</b>		
	<b>Docket #35366</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	28/08/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	124	Page	1 of 2
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/12557	W20/12558	W20/12559
Test Location	Lot 529	Lot 530	Lot 531
	Centre	Rear Centre	Centre
	1.0m Below FL	1.0m Below FL	1.0m Below FL
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Blended	Blended	Blended
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	28-Aug-20	28-Aug-20	28-Aug-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.078	2.017	2.050
Insitu Moisture Content (%)	15.4	15.2	16.1
PCWD (t/m <sup>3</sup> )	2.090	2.109	2.116
Peak Added Moisture (%)	+2.1	+0.8	+1.0
Moisture Correction (%)	+2.3	+0.9	+1.1
Retaining Sieve (mm)	37.5	37.5	37.5
Percentage Oversize (wet)	12.6	15.9	17.5
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>99.4</b>	<b>95.6</b>	<b>96.9</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Client Advised to Monitor Oversize Materials</b>		
	<b>Docket #35559</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	28/08/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	125	Page	2 of 2
		Order No.	Kyle

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/12560	W20/12561	W20/12562
Test Location	Lot 532	Lot 533	Lot 534
	Centre	Centre	Centre
	1.0m Below FL	1.0m Below FL	1.0m Below FL
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Blended	Blended	Blended
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	28-Aug-20	28-Aug-20	28-Aug-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.091	2.087	2.058
Insitu Moisture Content (%)	13.9	14.1	14.5
PCWD (t/m <sup>3</sup> )	2.119	2.102	2.095
Peak Added Moisture (%)	+1.8	+0.8	+0.9
Moisture Correction (%)	+2.0	+0.9	+1.0
Retaining Sieve (mm)	37.5	37.5	37.5
Percentage Oversize (wet)	12.0	10.9	16.4
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>98.7</b>	<b>99.3</b>	<b>98.2</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Client Advised to Monitor Oversize Materials</b>		
	<b>Docket #35559</b>		



## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	24/09/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	147	Page	1 of 1
		Order No.	Bryce

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/14585	W20/14586	W20/14587
Test Location	Lot 536	Lot 535	Lot 534
	Centre Lot	Centre Lot	Centre Lot
	Final Level	Final Level	Final Level
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Blended	Blended	Blended
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	24-Sep-20	24-Sep-20	24-Sep-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.049	2.046	2.066
Insitu Moisture Content (%)	7.0	7.2	7.1
PCWD (t/m <sup>3</sup> )	2.082	2.085	2.100
Peak Added Moisture (%)	+2.3	+2.3	+2.4
Moisture Correction (%)	+2.5	+2.5	+2.6
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>98.4</b>	<b>98.1</b>	<b>98.4</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>B Mould Used</b>		
	<b>Docket #35582</b>		

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	6/10/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	PF
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	148	Page	1 of 1
		Order No.	Christian

Test Methods	AS 1289 5.8.1/5.7.1/2.1.1		
Sample Method	AS 1289 1.2.1		
Lab Number	W20/15089	W20/15090	W20/15091
Test Location	Lot 456	Lot 456/457	Lot 457
	West Center Lot	Boundary Centre Lot	Centre Lot
	0.5m Below FL	1.0m Below FL	0.7m Below FL
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Blended	Blended	Blended
Depth Tested	150	150	150
Layer Thickness	300	300	300
Date Tested	6-Oct-20	6-Oct-20	6-Oct-20
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.085	2.070	2.067
Insitu Moisture Content (%)	10.2	11.6	11.4
PCWD (t/m <sup>3</sup> )	2.107	2.112	2.095
Peak Added Moisture (%)	+1.0	+0.3	+0.3
Moisture Correction (%)	+1.0	+0.3	+0.3
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
Corrected PCWD (t/m <sup>3</sup> )	N/A	N/A	N/A
Assigned Value	No	No	No
<b>HILF DENSITY RATIO (%)</b>	<b>99.0</b>	<b>98.0</b>	<b>98.7</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>B Mould Used</b>		
	<b>Docket #36253</b>		

## Appendix 3

### Materials Testing – Onsite Crusher Prior to Compaction

CONSTRUCTION

MATERIALS

TESTING

Form No: W182 – Version 2 (30/06/2020)



## Report on 1 point CBR

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	4/02/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	BD
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	DW
Report Number	20	Page	1 of 3
		Order No.	Kyle/Bryce

Test Method	AS1289 6.1.1	Sample Method	AS1289 1.2.1[6.4]
Sample Location	Onsite Stockpile - Ex Truck Discharge		
Material Type	Proposed Fill		
Visual Tactile Inspection	Medium		
Curing Time	24-48hr		
Lab Number	W20/1111		
Remarks	Silty Sandy Clayey Gravel [GC], Pale Brown [Docket #32734]		

Maximum Dry Density	1.980 t/m <sup>3</sup>
Optimum Moisture Content	10.4 %
Compactive Effort	Standard
Nominated Percentage of Maximum Dry Density	100 %
Nominated Percentage of Optimum Moisture Content	100 %
Achieved Dry Density	1.985 t/m <sup>3</sup>
Achieved Laboratory Density Ratio	100.3 %
Achieved Moisture Content	10.3 %
Achieved Laboratory Moisture Ratio	99.0 %
Test Condition	Soaked
Soaking Period	4 days
Surcharge Applied	4.5 kg
Swell	0.2 %
Dry Density after soak	1.995 t/m <sup>3</sup>
Moisture Content after soak	10.9 %
Field Moisture Content	8.9 %
Moisture Content after penetration (Top of sample)	10.9 %
Moisture Content after penetration (Remainder)	N/A %
Material >19mm excluded from specimen?	Yes
Material >19mm crushed & included-19.0mm+4.75mm?	No
CBR Value at 2.5mm Penetration	28.0 %
CBR Value at 5.0mm Penetration	37.6 %
Specified CBR Value	N/A %

CBR @ 5.0 mm 40 %



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Accreditation No: 15070

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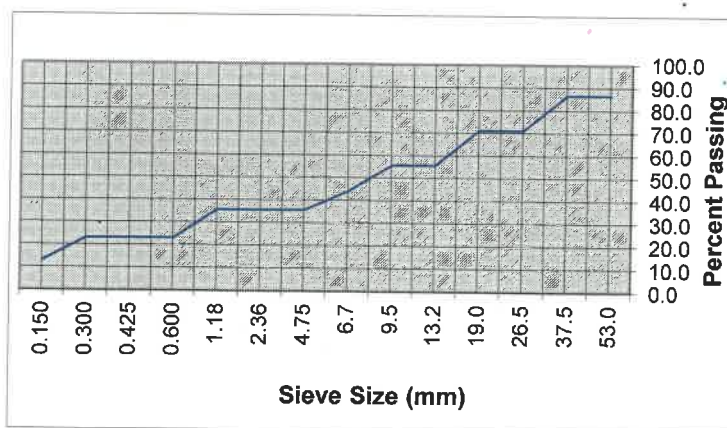
Date 13/02/2020

## Report on Particle Size Distribution

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	4/02/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	BD
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	DW
Report Number	20	Page	2 of 3
		Order No.	Kyle/Bryce

Test Method	Q103A	Sample Method	Q061
Lab Number	W20/1111	Preparation Type	Oven Dried Sample
Sample Location	Onsite Stockpile - Ex Truck Discharge		

Particle Size Distribution		S	Type "C" Specs	
Sieve Size (mm)	% Passing		Max	Min
53.0	100.0			
37.5	86.7			100
19.0	71.1	80		100
9.50	55.6	55		90
4.75	44.1	40		70
2.36	35.7	30		55
0.425	23.2	12		30
0.075	13.1	5		20



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Accreditation No: 15070  
Accredited for compliance ISO/IEC 17025 - Testing

Date 13/02/2020

## REPORT ON LIQUID LIMIT

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	4/02/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	BD
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	DW
Report Number	20	Page	3 of 3
		Order No.	Kyle/Bryce

Test Method		Q104D	Q105	Q106			
Sample Method	Q061			Material Type		Proposed Fill	
Lab Number	W20/1111						
Sample Location	Onsite Stockpile - Ex Truck Discharge						

### Test Results

Sample History	Oven Dried	Type "C" Specs		
Sample Preparation	Dry Sieved	T2.1	T2.3	T2.5
<b>Liquid Limit</b>	<b>28.6</b>	25	28	40
<b>Plastic Limit</b>	<b>19.2</b>	N/A	N/A	N/A
<b>Plasticity Index</b>	<b>9.4</b>	6	8	14
<b>Linear Shrinkage (%)</b>	<b>5.6</b>	3.5	4.5	7.5
<b>WPI (%)</b>	<b>218.1</b>	150	200	N/A



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Date 13/02/2020

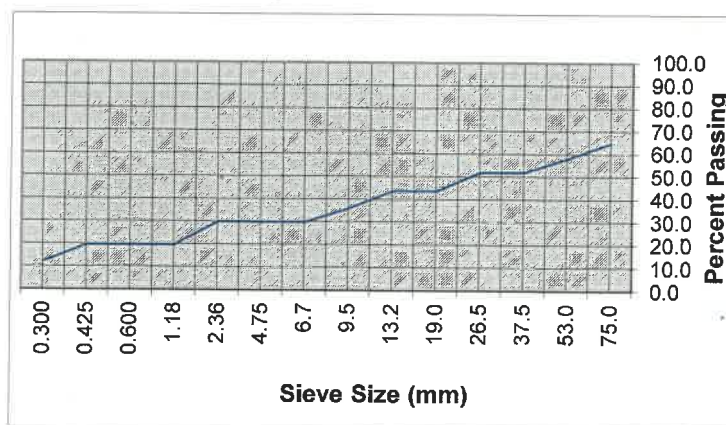


## Report on Particle Size Distribution

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	30/01/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	BD
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	BD
Report Number	21	Page	1 of 1
		Order No.	Kyle G.

Test Method	Q103A	Sample Method	Q061
Lab Number	W20/1139	Preparation Type	Oven Dried Sample
Sample Location	Onsite Allotment Fill		

Particle Size Distribution		S
Sieve Size (mm)	% Passing	
75.0	85.4	
53.0	72.0	
37.5	65.2	
26.0	58.2	
19.0	52.1	
9.5	43.9	
4.75	36.2	
2.36	30.2	
0.425	20.0	
0.075	12.6	



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Date 11/02/2020

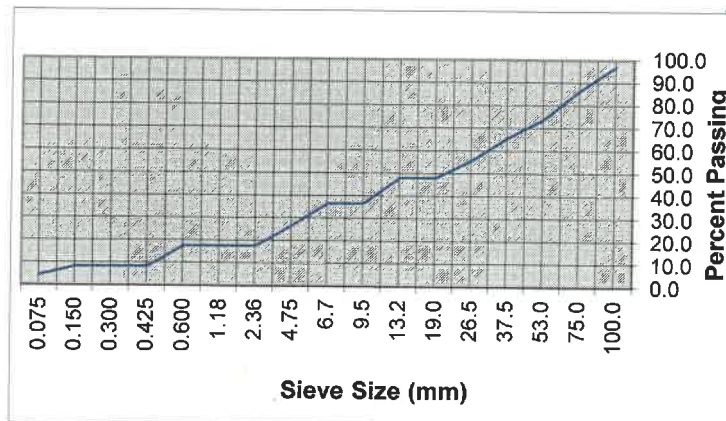
## Report on Particle Size Distribution

Client:	Shadforth's Civil Pty Ltd	Job No:	J19/76
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	17/07/2020
Project:	Parklakes 2 Estate - Stages 12 & 13	Tested by:	BD
Location:	Yandina-Bli Bli Road, Bli Bli Qld	Checked:	JL
Report Number	69	Page	1 of 1
		Order No.	Kyle

Test Method	Q103A	Sample Method	Q060
Lab Number	W20/9377	Preparation Type	Oven Dried Sample
Sample Location	Onsite Crushed Rock From Blast		

**Particle Size Distribution**      **S**

Sieve Size (mm)	% Passing
100.0	97.2
75.0	86.3
53.0	73.8
37.5	65.6
26.5	55.4
19.0	47.9
9.5	36.5
4.75	26.4
2.36	17.6
0.425	8.4
0.075	4.6



Dean Wagner - Authorised Signatory  
Accreditation No: 15070  
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Date 25/07/2020

## Appendix 4 Typical Site Conditions

CONSTRUCTION

MATERIALS

TESTING

Form No: W182 – Version 2 (30/06/2020)



## TYPICAL SITE CONDITIONS



Shadforth's Civil Pty Ltd

Parklakes 2 Stages 12 & 13, Maroochydore Qld

## TYPICAL SITE CONDITIONS



Shadforth's Civil Pty Ltd

Parklakes 2 Stages 12 & 13, Maroochydore Qld



## TYPICAL SITE CONDITIONS



**Crusher Made Material**



Shadforth's Civil Pty Ltd

Parklakes 2 Stages 12 & 13, Maroochydore Qld



## TYPICAL SITE CONDITIONS



**Oversize Material**



Shadforth's Civil Pty Ltd

Parklakes 2 Stages 12 & 13, Maroochydore Qld



## TYPICAL SITE CONDITIONS



Shadforth's Civil Pty Ltd

Parklakes 2 Stages 12 & 13, Maroochydore Qld

## TYPICAL SITE CONDITIONS



Shadforth's Civil Pty Ltd

Parklakes 2 Stages 12 & 13, Maroochydore Qld



## TYPICAL SITE CONDITIONS



Shadforth's Civil Pty Ltd

Parklakes 2 Stages 12 & 13, Maroochydore Qld

## TYPICAL SITE CONDITIONS



Shadforth's Civil Pty Ltd

Parklakes 2 Stages 12 & 13, Maroochydore Qld

## Appendix 5 Site Information

CONSTRUCTION

MATERIALS

TESTING



# Information

## Important Information about your Report

As a client of Wagner Soil Testing Pty Ltd you should know that site subsurface conditions cause more construction problems than any other factor. These notes have been provided to help you interpret and understand the limitations of your report.

### Your report is project specific

Your report has been developed on the basis of your unique project specific requirements as understood by Wagner Soil Testing and applies only to the site investigated. Project criteria typically include the general nature of the project; its size and configuration; the location of any structure on the site; other site improvements; the presence of underground utilities; and the additional risk imposed by scope-of-surface limitations imposed by the client. Your report should not be used if there are any changes to the project without first asking Wagner Soil Testing to assess how factors that changed subsequent to the date of the report affect the report's recommendations. Wagner Soil Testing cannot accept responsibility for problems that may occur due to changed factors if they are not consulted. Our report does not take into account any existing filled ground or any other unforeseen subsurface conditions that may change anticipated site classification.

### Subsurface conditions can change

A geotechnical engineering report is based on conditions that existed at the time the study was performed. Do not rely on a geotechnical engineering report whose adequacy may have been affected by: the passage of time; by man-made events, such as construction on or adjacent to the site; or by natural events, such as floods, earthquakes, or groundwater fluctuations. Always contact Wagner Soil Testing before applying the report to determine if it is still reliable. A minor amount of additional testing or analysis could prevent major problems.

### Interpretation of factual data

Site assessment identifies actual subsurface conditions only at those points where samples are taken and when they are taken. Data derived from literature and external data source review, sampling and subsequent laboratory testing are interpreted by geologists, engineers or scientists to provide an opinion about overall site conditions, their likely impact on the proposed development and recommended actions. Actual conditions may differ from those inferred to exist, because no professional, no matter how qualified, can reveal what is hidden by earth, rock and time. The actual interface between materials may be far more gradual or abrupt than assumed based on the facts obtained. Nothing can be done to change the actual site conditions which exist, but steps can be taken to reduce the impact of unexpected conditions. For this reason, owners

should retain the services of Wagner Soil Testing through the development stage, to identify variances, conduct additional tests if required, and recommend solutions to problems encountered on site.

### Your report will only give preliminary recommendations

Your report is based on the assumption that the site conditions as revealed through selective point sampling are indicative of actual conditions throughout an area. This assumption cannot be substantiated until project implementation has commenced and therefore your report recommendations can only be regarded as preliminary. Only Wagner Soil Testing, who prepared the report, is fully familiar with the background information needed to assess whether or not the report's recommendations are valid and whether or not changes should be considered as the project develops. If another party undertakes the implementation of recommendations of this report there is a risk that the report will be misinterpreted and Wagner Soil Testing cannot be held responsible for such misinterpretation.

### Your report is prepared for specific purposes and persons

To avoid misuse of the information contained in your report it is recommended that you confer with Wagner Soil Testing before passing your report on to another party who may not be familiar with the background and purpose of the report. Your report should not be applied to any project other than that originally specified at the time the report was issued. It is a requirement that the client contacts Wagner Soil Testing Pty Ltd when the exact position of the proposed building is confirmed so we can check if our Boreholes fall in the footing area [our borelogs are only presumed indicative of the whole area until this is confirmed]. In the case of a cracked house investigation more testing may be required to conclude all possible causes of settlement and or movement. Initial drilling and lab testing may only identify some of the causes of the problem. Wagner Soil Testing should be contacted when additional testing is required. It is a company policy that Wagner Soil Testing are contacted if the development (including any portion and/or envelope) is sold and/or changes title as the report is only for the use of our direct client. If the development is sold and/or changes title Wagner Soil Testing must be contacted and subsequently will carry out a comprehensive site inspection – evaluation at no cost to ensure the preliminary report is relevant and no changes whatsoever have been made.