

Level One Report AS3798

Client: Shadforth Civil Pty Ltd.
Project: Village Green Stage 2 Bulk Earthworks
Address: Palmview Qld, 4553
Job No. J21/17



Version	Date	Author	Initials	Reviewer	Initials
2	09/11/21	Jacob Jones	JJ	Dean Wagner	DW

Form No: W169 – Version 4 (14/05/2021)



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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 Village Green Stage 2 Bulk Earthworks Qld.

Controlled fill (as defined in AS 2870) was placed by Shadforth 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 Village Green, Palmview Qld 4553. The general location of the site is shown in the attached site plans (Appendix 1). The site is bound by existing & ongoing 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 & no significant issues were noted 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) were compacted using a medium sized pad foot roller in layers not exceeding 0.3m loose. The natural ground in the areas of filling generally comprised of Silty Sand (SM). The fill material used was generally as above. Moisture contents of all fills placed was monitored by Wagner Soil Testing. Total volumes of fill reached 14,552m³. This report includes all backfill operations of the existing swale drain.

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, forty-five (45) Field Dry Densities were carried out on fill materials together with Dynamic Cone Penetrometers (DCP's) over the filled zones periodically & at the completion of earthworks operations to help quantify bearing capacities.

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 unfavourable 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 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.

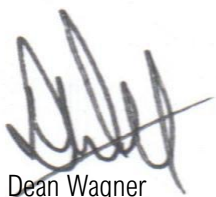
The results provided in this report are indicative of the subsurface conditions on the site only at the specific sampling or testing locations, and then only to the depths investigated along with the time the work was carried out. It is known that subsurface conditions can suddenly change due to irregular 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 behaviour 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.

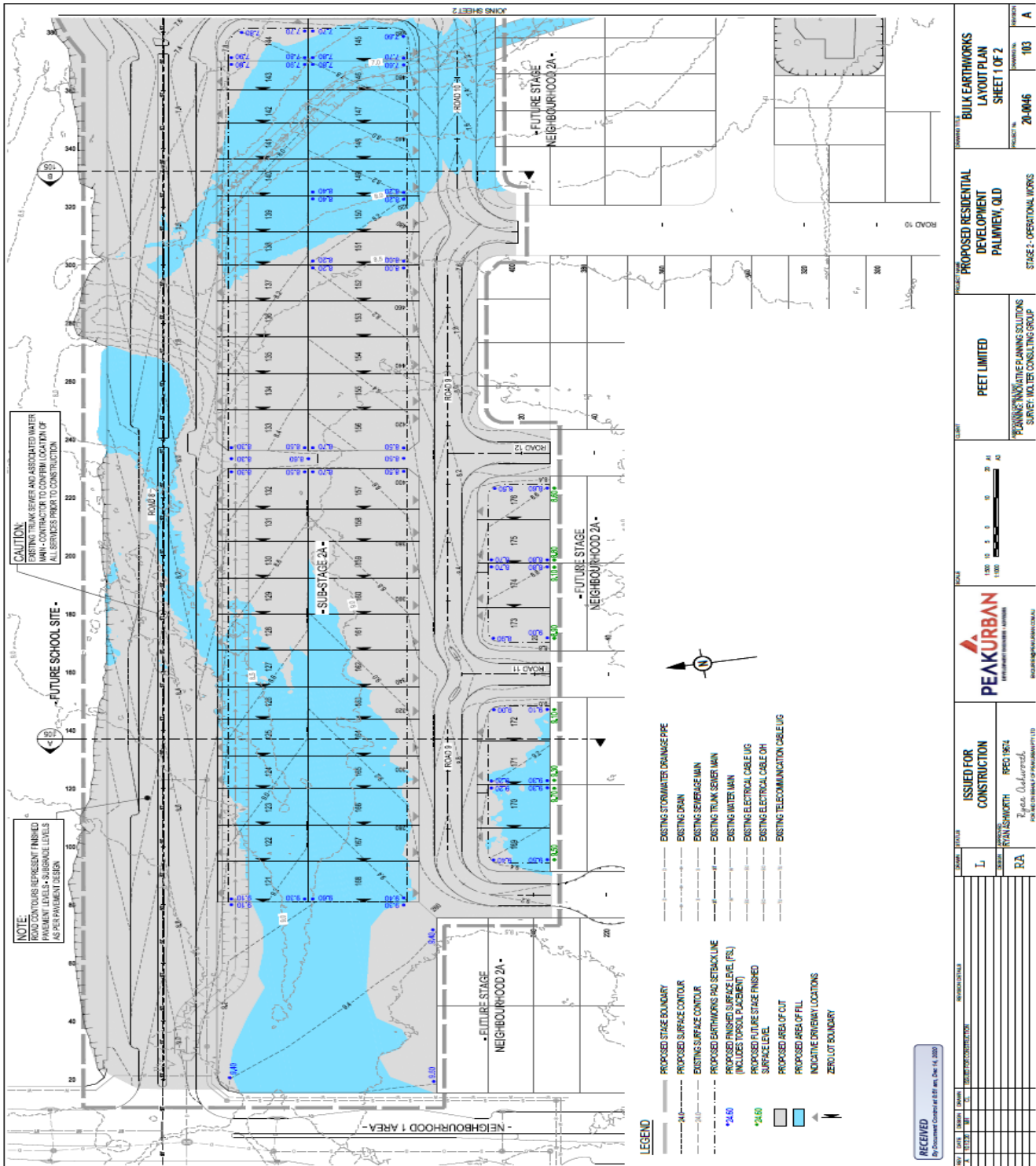
To establish a geotechnical model as per AS1726-2017-5.2 we require extra testing. No differential settlement estimates have been calculated for this site.

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

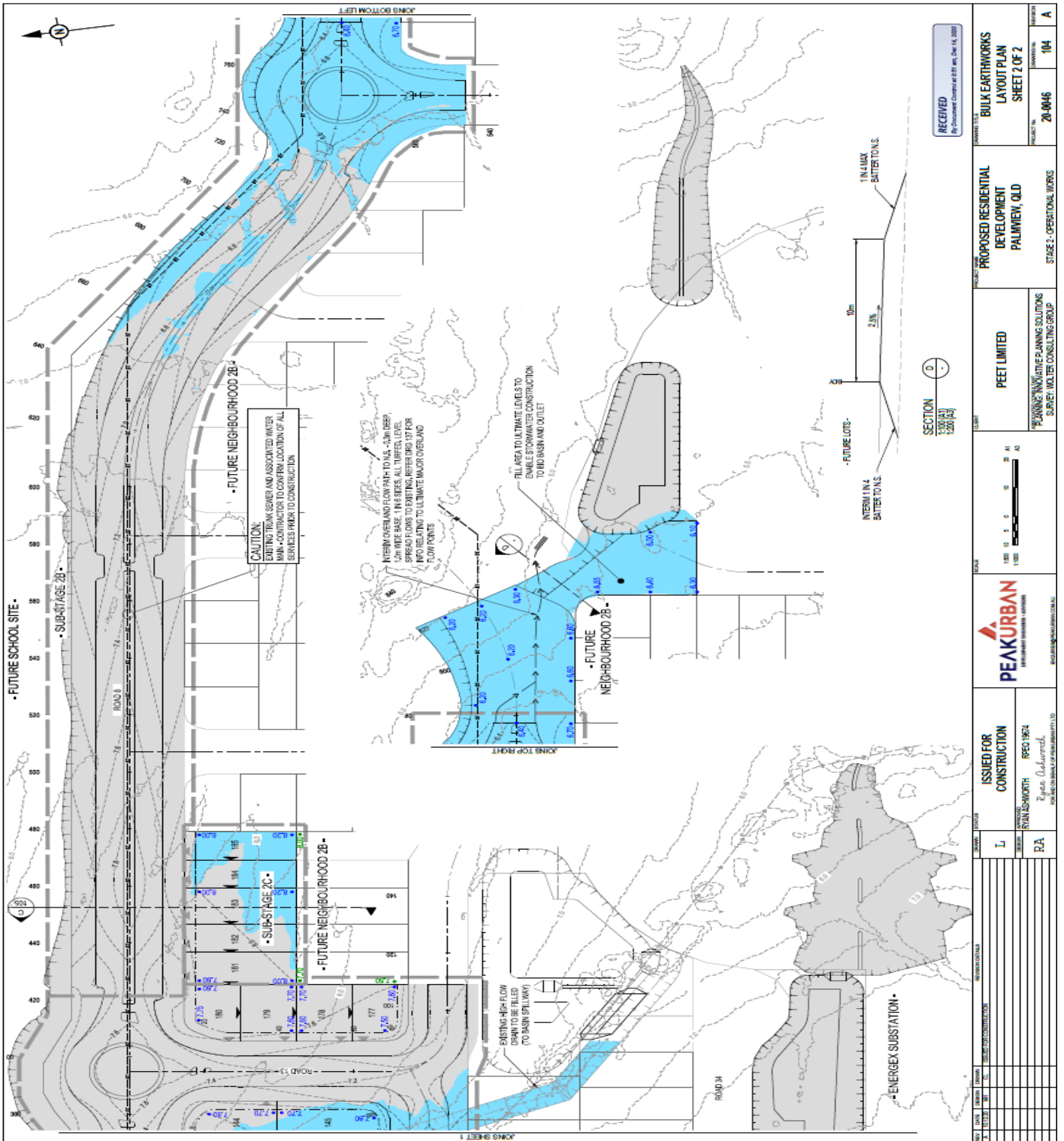


Dean Wagner
Managing Director
Wagner Soil Testing

Appendix 1 – General Layout Plan



Appendix 1 – General Layout Plan



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<p>RECEIVED By Document Control 09 Dec 14, 2010</p>		<p>PROJECT TITLE BULK EARTHWORKS LAYOUT PLAN SHEET 2 OF 2</p>	
<p>CLIENT PEET LIMITED</p>		<p>PROPOSED RESIDENTIAL DEVELOPMENT PALMVIEW, QLD</p>	
<p>SCALE 1:200 (H) 1:200 (V)</p>		<p>STAGE 2 - OPERATIONAL WORKS</p>	
<p>ISSUED FOR CONSTRUCTION TRANSWORTH REFO 1824 Tegan O'Leary FOR THE BENEFIT OF THE PROJECT ONLY</p>		<p>PLANNING AND ENGINEERING SOLUTIONS SURVEY, WATER CONSULTING GROUP</p>	
<p>DATE 14/12/10</p>		<p>PROJECT NO. 24-0046</p>	
<p>NO. OF SHEETS 104</p>		<p>REVISION A</p>	



PO Box 171, Wamuran Qld 4512
296 Old North Road, Wamuran Qld 4512
Office: 07 5496 6715
Fax: 07 5496 6717
ABN: 49 416 679 791
Email: admin@wagnersoiltesting.com.au
Website: www.wagnersoiltesting.com.au

Appendix 2 – Field Density Reports

REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J21/17
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	01-Feb-21
Project:	Village Green Stage 2 - Bulk Earthworks	Tested by:	SW
Location:	Palmview, Qld	Checked:	JJ
Report Number:	1	Page	1 of 1
		Order No:	Hayden

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1		
Sample Method	Earthworks Layer (Compact)	AS 1289 1.2.1 (6.4(b))	
Lab Number	W21/690		
Test Location	Lot 121/122		
	1st Lift		
Layer / Elevation	Swale Backfill		
Material Source	Onsite		
Depth Tested	175		
Layer Thickness	200		
Date Tested	01-Feb-21		
Material Sampled	After Compaction		
Test Results			
Insitu Wet Density (t/m ³)	1.93		
Insitu Moisture Content (%)	N/A		
PCWD (t/m ³)	1.97		
Peak Added Moisture (%)	+2.3		
Moisture Correction (%)	+2.6		
Retaining Sieve (mm)	19.0		
Percentage Oversize (wet)	0.0		
HILF DENSITY RATIO (%)	98.0		
MOISTURE VARIATION (%)			
Compaction Type	Standard		
Degree of Compaction	95%		
Remarks			
	Docket #0		




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Date 09-11-21



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SOIL TESTING

ABN: 49 416 679 791



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PO Box 171 Wamuran Qld 4512
296 Old North Road, Wamuran Qld 4512

Phone: 07 5496 6715

Mobile: 0438 924 637

Fax: 07 5496 6717

Email: admin@wagnersoiltesting.com.au

Web: www.wagnersoiltesting.com.au

REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J21/17
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	02-Feb-21
Project:	Village Green Stage 2 - Bulk Earthworks	Tested by:	SW
Location:	Palmview, Qld	Checked:	JJ
Report Number:	2	Page	1 of 1
		Order No:	Hayden

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1		
Sample Method	Earthworks Layer (Compact)	AS 1289 1.2.1 (6.4(b))	
Lab Number	W21/720		
Test Location	Lot 123/124		
	2nd Lift		
Layer / Elevation	Swale Backfill		
Material Source	Onsite		
Depth Tested	175		
Layer Thickness	200		
Date Tested	02-Feb-21		
Material Sampled	After Compaction		
Test Results			
In situ Wet Density (t/m ³)	1.93		
In situ Moisture Content (%)	N/A		
PCWD (t/m ³)	1.96		
Peak Added Moisture (%)	+2.2		
Moisture Correction (%)	+2.5		
Retaining Sieve (mm)	19.0		
Percentage Oversize (wet)	0.0		
HILF DENSITY RATIO (%)	98.5		
MOISTURE VARIATION (%)			
Compaction Type	Standard		
Degree of Compaction	95%		
Remarks	Docket #0		




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SOIL TESTING

ABN: 49 416 679 791



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COMPETENCE

PO Box 171 Wamuran Qld 4512
296 Old North Road, Wamuran Qld 4512

Phone: 07 5496 6715

Mobile: 0438 924 637

Fax: 07 5496 6717

Email: admin@wagnersoiltesting.com.au


Web: www.wagnersoiltesting.com.au

REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J21/17
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	04-Feb-21
Project:	Village Green Stage 2 - Bulk Earthworks	Tested by:	SW
Location:	Palmview, Qld	Checked:	JJ
Report Number:	3	Page	1 of 1
		Order No:	Hayden

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1		
Sample Method	Earthworks Layer (Compact)	AS 1289 1.2.1 (6.4(b))	
Lab Number	W21/930		
Test Location	Lot 125/126		
	3rd Lift		
Layer / Elevation	Swale Backfill		
Material Source	Onsite		
Depth Tested	175		
Layer Thickness	200		
Date Tested	04-Feb-21		
Material Sampled	After Compaction		
Test Results			
In situ Wet Density (t/m ³)	1.88		
In situ Moisture Content (%)	N/A		
PCWD (t/m ³)	1.96		
Peak Added Moisture (%)	+2.3		
Moisture Correction (%)	+2.6		
Retaining Sieve (mm)	19.0		
Percentage Oversize (wet)	0.0		
HILF DENSITY RATIO (%)	96.0		
MOISTURE VARIATION (%)			
Compaction Type	Standard		
Degree of Compaction	95%		
Remarks			
		Docket #0	




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REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J21/17
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	26-Mar-21
Project:	Village Green Stage 2 & 2A	Tested by:	RS/SW
Location:	Palmview, Qld	Checked:	DS
Report Number:	19	Page	1 of 1
		Order No:	Hayden G

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1		
Sample Method	Earthworks Layer (Compact) AS 1289 1.2.1 (6.4(b))		
Lab Number	W21/2971	W21/2972	W21/2973
Test Location	Lot 127 / 128	Lot 137 / 138	Lot 139 / 140
	Boundary	Boundary	Boundary
	Final Level	Final Level	Final Level
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	26-Mar-21	26-Mar-21	26-Mar-21
Material Sampled	After Compaction	After Compaction	After Compaction
Test Results			
Insitu Wet Density (t/m ³)	2.15	2.11	2.15
Insitu Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m ³)	2.15	2.12	2.16
Peak Added Moisture (%)	+2.2	+2.3	+2.2
Moisture Correction (%)	+2.4	+2.5	+2.4
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
HILF DENSITY RATIO (%)	100.0	99.5	100.0
MOISTURE VARIATION (%)			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	Docket #39055		



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Date 13-04-21

REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J21/17
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	29-Mar-21
Project:	Village Green Stage 2 - Bulk Earthworks	Tested by:	RS / SW
Location:	Palmview, Qld	Checked:	LW
Report Number:	20 Page 1 of 1	Order No:	Hayden G

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1		
Sample Method	Earthworks Layer (Compact) AS 1289 1.2.1 (6.4(b))		
Lab Number	W21/2974	W21/2975	W21/2976
Test Location	Lot No. 121 / 122	Lot No. 123 / 124	Lot No. 125 / 126
	Boundary	Boundary	Boundary
	Final Level	Final Level	Final Level
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	29-Mar-21	29-Mar-21	29-Mar-21
Material Sampled	After Compaction	After Compaction	After Compaction
Test Results			
Insitu Wet Density (t/m ³)	2.13	2.05	2.17
Insitu Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m ³)	2.14	2.10	2.16
Peak Added Moisture (%)	+1.3	+2.5	+2.4
Moisture Correction (%)	+1.4	+2.8	+2.6
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
HILF DENSITY RATIO (%)	99.5	98.0	100.5
MOISTURE VARIATION (%)			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	Docket #39054		



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Date 14-04-21

REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J21/17
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	29-Mar-21
Project:	Village Green Stage 2 - Bulk Earthworks	Tested by:	SW/RS
Location:	Palmview, Qld	Checked:	DS
Report Number:	21	Page	1 of 1
		Order No:	Hayden G

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1		
Sample Method	Earthworks Layer (Compact) AS 1289 1.2.1 (6.4(b))		
Lab Number	W21/3203	W21/3204	W21/3205
Test Location	Lots 167/168	Lots 165/166	Lots 163/164
	Boundary	Boundary	Boundary
	Final Level	Final Level	Final Level
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	29-Mar-21	29-Mar-21	29-Mar-21
Material Sampled	After Compaction	After Compaction	After Compaction
Test Results			
Insitu Wet Density (t/m ³)	2.07	2.08	2.12
Insitu Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m ³)	2.09	2.11	2.13
Peak Added Moisture (%)	+0.2	+0.2	+0.2
Moisture Correction (%)	+0.2	+0.2	+0.2
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
HILF DENSITY RATIO (%)	99.0	98.5	99.5
MOISTURE VARIATION (%)			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	Docket #39062		



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REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J21/17
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	30-Mar-21
Project:	Village Green Stage 2 - Bulk Earthworks	Tested by:	SW/RS
Location:	Palmview, Qld	Checked:	JL
Report Number:	22	Page	1 of 1
		Order No:	Hayden G

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1		
Sample Method	Earthworks Layer (Compact) AS 1289 1.2.1 (6.4(b))		
Lab Number	W21/3206	W21/3207	W21/3208
Test Location	Lot 151	Lots 149/150	Lots 171/172
	North-East Corner	Boundary	Boundary
	Final Level	Final Level	Final Level
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	30-Mar-21	30-Mar-21	30-Mar-21
Material Sampled	After Compaction	After Compaction	After Compaction
Test Results			
Insitu Wet Density (t/m ³)	2.01	2.06	2.03
Insitu Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m ³)	2.04	2.08	2.06
Peak Added Moisture (%)	+0.2	+0.2	+0.3
Moisture Correction (%)	+0.2	+0.2	+0.3
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
HILF DENSITY RATIO (%)	98.5	99.0	98.5
MOISTURE VARIATION (%)			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	Docket #39063		



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REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J21/17
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	31-Mar-21
Project:	Village Green Stage 2 - Bulk Earthworks	Tested by:	SW
Location:	Palmview, Qld	Checked:	DS
Report Number:	23	Page	1 of 1
		Order No:	Hayden

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1		
Sample Method	Earthworks Layer (Compact) AS 1289 1.2.1 (6.4(b))		
Lab Number	W21/3209	W21/3210	W21/3211
Test Location	Lots 161/162	Lots 159/160	Lots 169/170
	Boundary	Boundary	Boundary
	Final Level	Final Level	Final Level
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	31-Mar-21	31-Mar-21	31-Mar-21
Material Sampled	After Compaction	After Compaction	After Compaction
Test Results			
In situ Wet Density (t/m ³)	1.99	2.15	2.09
In situ Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m ³)	2.09	2.10	2.11
Peak Added Moisture (%)	+0.3	+0.2	+0.3
Moisture Correction (%)	+0.3	+0.2	+0.3
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
HILF DENSITY RATIO (%)	95.0	102.0	99.0
MOISTURE VARIATION (%)			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	Docket #39064		




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WAGNER

SOIL TESTING

ABN: 49 416 679 791



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PO Box 171 Wamuran Qld 4512
296 Old North Road, Wamuran Qld 4512

Phone: 07 5496 6715

Mobile: 0438 924 637

Fax: 07 5496 6717

Email: admin@wagnersoiltesting.com.au


Web: www.wagnersoiltesting.com.au

REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J21/17
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	18-Mar-21
Project:	Village Green Stage 2 - Bulk Earthworks	Tested by:	SW
Location:	Palmview, Qld	Checked:	JJ
Report Number:	45 Page 1 of 1	Order No:	Hayden

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1		
Sample Method	Earthworks Layer (Compact) AS 1289 1.2.1 (6.4(b))		
Lab Number	W21/5429	W21/5430	
Test Location	Lot 122/123	Lot 127/128	
	4th Lift	4th Lift	
Layer / Elevation	Swale Backfill	Swale Backfill	
Material Source	Onsite	Onsite	
Depth Tested	175	175	
Layer Thickness	200	200	
Date Tested	18-Mar-21	18-Mar-21	
Material Sampled	After Compaction	After Compaction	
Test Results			
Insitu Wet Density (t/m ³)	1.93	1.88	
Insitu Moisture Content (%)	N/A	N/A	
PCWD (t/m ³)	1.96	1.96	
Peak Added Moisture (%)	+0.2	+0.2	
Moisture Correction (%)	+0.3	+0.3	
Retaining Sieve (mm)	19.0	19.0	
Percentage Oversize (wet)	0.0	0.0	
HILF DENSITY RATIO (%)	99.0	96.0	
MOISTURE VARIATION (%)			
Compaction Type	Standard	Standard	
Degree of Compaction	95%	95%	
Remarks	Docket #0		




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TESTING

REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J21/17
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	24-Mar-21
Project:	Village Green Stage 2 - Bulk Earthworks	Tested by:	SW
Location:	Palmview, Qld	Checked:	JJ
Report Number:	46	Page	1 of 1
		Order No:	Hayden

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1		
Sample Method	Earthworks Layer (Compact)	AS 1289 1.2.1 (6.4(b))	
Lab Number	W21/5700		
Test Location	Lot 128		
	5th Lift		
Layer / Elevation	Swale Backfill		
Material Source	Onsite		
Depth Tested	175		
Layer Thickness	200		
Date Tested	24-Mar-21		
Material Sampled	After Compaction		
Test Results			
In situ Wet Density (t/m ³)	1.91		
In situ Moisture Content (%)	N/A		
PCWD (t/m ³)	1.95		
Peak Added Moisture (%)	+0.4		
Moisture Correction (%)	+0.5		
Retaining Sieve (mm)	19.0		
Percentage Oversize (wet)	0.0		
HILF DENSITY RATIO (%)	97.5		
MOISTURE VARIATION (%)			
Compaction Type	Standard		
Degree of Compaction	95%		
Remarks			
	Docket #0		



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REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J21/17
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	26-Mar-21
Project:	Village Green Stage 2 - Bulk Earthworks	Tested by:	SW
Location:	Palmview, Qld	Checked:	JJ
Report Number:	47	Page	1 of 1
		Order No:	Hayden

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1		
Sample Method	Earthworks Layer (Compact)	AS 1289 1.2.1 (6.4(b))	
Lab Number	W21/5790		
Test Location	Lot 129/130		
	5th Lift		
Layer / Elevation	Swale Backfill		
Material Source	Onsite		
Depth Tested	175		
Layer Thickness	200		
Date Tested	26-Mar-21		
Material Sampled	After Compaction		
Test Results			
In situ Wet Density (t/m ³)	1.93		
In situ Moisture Content (%)	N/A		
PCWD (t/m ³)	1.97		
Peak Added Moisture (%)	+2.3		
Moisture Correction (%)	+2.6		
Retaining Sieve (mm)	19.0		
Percentage Oversize (wet)	0.0		
HILF DENSITY RATIO (%)	98.0		
MOISTURE VARIATION (%)			
Compaction Type	Standard		
Degree of Compaction	95%		
Remarks	Docket #0		




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Date 09-11-21

REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J21/17
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	01-Apr-21
Project:	Village Green Stage 2 - Bulk Earthworks	Tested by:	SW
Location:	Palmview, Qld	Checked:	JJ
Report Number:	48	Page	1 of 1
		Order No:	Hayden

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1		
Sample Method	Earthworks Layer (Compact)	AS 1289 1.2.1 (6.4(b))	
Lab Number	W21/6120		
Test Location	Lot 131/132		
	4th Lift		
Layer / Elevation	Swale Backfill		
Material Source	Onsite		
Depth Tested	175		
Layer Thickness	200		
Date Tested	01-Apr-21		
Material Sampled	After Compaction		
Test Results			
In situ Wet Density (t/m ³)	1.94		
In situ Moisture Content (%)	N/A		
PCWD (t/m ³)	1.97		
Peak Added Moisture (%)	+2.3		
Moisture Correction (%)	+2.6		
Retaining Sieve (mm)	19.0		
Percentage Oversize (wet)	0.0		
HILF DENSITY RATIO (%)	98.5		
MOISTURE VARIATION (%)			
Compaction Type	Standard		
Degree of Compaction	95%		
Remarks	Docket #0		



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Date 09-11-21

REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J21/17
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	07-Jun-21
Project:	Village Green Stage 2 - Bulk Earthworks	Tested by:	SW
Location:	Palmview, Qld	Checked:	DS
Report Number:	49 Page 1 of 2	Order No:	Hayden

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1		
Sample Method	Earthworks Layer (Compact) AS 1289 1.2.1 (6.4(b))		
Lab Number	W21/7043	W21/7044	W21/7045
Test Location	Lots 141/142	Lots 143/144	Lots 148/147
	Boundary	Boundary	Boundary
	Final Level	Final Level	Final Level
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	07-Jun-21	07-Jun-21	07-Jun-21
Material Sampled	After Compaction	After Compaction	After Compaction
Test Results			
Insitu Wet Density (t/m ³)	2.15	1.96	2.15
Insitu Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m ³)	2.10	2.06	2.11
Peak Added Moisture (%)	+4.3	+2.2	+2.2
Moisture Correction (%)	+4.6	+2.4	+2.4
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
HILF DENSITY RATIO (%)	102.0	95.5	101.5
MOISTURE VARIATION (%)			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	Docket #37706		



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REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J21/17
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	21-Apr-21
Project:	Village Green Stage 2 - Bulk Earthworks	Tested by:	SW
Location:	Palmview, Qld	Checked:	JJ
Report Number:	49	Page	1 of 1
		Order No:	Hayden

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1		
Sample Method	Earthworks Layer (Compact)	AS 1289 1.2.1 (6.4(b))	
Lab Number	W21/6240		
Test Location	Lot 136/137		
	3rd Lift		
Layer / Elevation	Swale Backfill		
Material Source	Onsite		
Depth Tested	175		
Layer Thickness	200		
Date Tested	21-Apr-21		
Material Sampled	After Compaction		
Test Results			
In situ Wet Density (t/m ³)	1.95		
In situ Moisture Content (%)	N/A		
PCWD (t/m ³)	1.99		
Peak Added Moisture (%)	+2.4		
Moisture Correction (%)	+2.7		
Retaining Sieve (mm)	19.0		
Percentage Oversize (wet)	0.0		
HILF DENSITY RATIO (%)	98.0		
MOISTURE VARIATION (%)			
Compaction Type	Standard		
Degree of Compaction	95%		
Remarks			
	Docket #0		




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ABN: 49 416 679 791



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TECHNICAL
COMPETENCE

PO Box 171 Wamuran Qld 4512
296 Old North Road, Wamuran Qld 4512

Phone: 07 5496 6715

Mobile: 0438 924 637

Fax: 07 5496 6717

Email: admin@wagnersoiltesting.com.au


Web: www.wagnersoiltesting.com.au

REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J21/17
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	07-Jun-21
Project:	Village Green Stage 2 - Bulk Earthworks	Tested by:	SW
Location:	Palmview, Qld	Checked:	DS
Report Number:	50	Page	2 of 2
		Order No:	Hayden

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1		
Sample Method	Earthworks Layer (Compact)	AS 1289 1.2.1 (6.4(b))	
Lab Number	W21/7046		
Test Location	Lots 146/145		
	Boundary		
	Final Level		
Layer / Elevation	Allotment Fill		
Material Source	Onsite		
Depth Tested	175		
Layer Thickness	200		
Date Tested	07-Jun-21		
Material Sampled	After Compaction		
Test Results			
In situ Wet Density (t/m ³)	2.06		
In situ Moisture Content (%)	N/A		
PCWD (t/m ³)	2.07		
Peak Added Moisture (%)	+2.3		
Moisture Correction (%)	+2.6		
Retaining Sieve (mm)	19.0		
Percentage Oversize (wet)	0.0		
HILF DENSITY RATIO (%)	99.5		
MOISTURE VARIATION (%)			
Compaction Type	Standard		
Degree of Compaction	95%		
Remarks	Docket #37706		




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REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J21/17
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	08-Jun-21
Project:	Village Green Stage 2 - Bulk Earthworks	Tested by:	SW
Location:	Palmview, Qld	Checked:	DS
Report Number:	51	Page	1 of 2
		Order No:	Hayden

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1		
Sample Method	Earthworks Layer (Compact) AS 1289 1.2.1 (6.4(b))		
Lab Number	W21/7424	W21/7425	W21/7426
Test Location	Site Compound	Site Compound	Site Compound
	Western Side	Eastern Side	Northern Side
	Final Level	Final Level	Final Level
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	08-Jun-21	08-Jun-21	08-Jun-21
Material Sampled	After Compaction	After Compaction	After Compaction
Test Results			
In situ Wet Density (t/m ³)	2.12	2.17	2.03
In situ Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m ³)	2.09	2.10	2.07
Peak Added Moisture (%)	+2.2	+4.2	+4.2
Moisture Correction (%)	+2.4	+4.5	+4.5
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
HILF DENSITY RATIO (%)	101.5	103.5	98.0
MOISTURE VARIATION (%)			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	Docket #37718		




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COMPETENCE

PO Box 171 Wamuran Qld 4512
296 Old North Road, Wamuran Qld 4512

Phone: 07 5496 6715

Mobile: 0438 924 637

Fax: 07 5496 6717

Email: admin@wagnersoiltesting.com.au


Web: www.wagnersoiltesting.com.au

REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J21/17
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	08-Jun-21
Project:	Village Green Stage 2 - Bulk Earthworks	Tested by:	SW
Location:	Palmview, Qld	Checked:	DS
Report Number:	52	Page	1 of 2
		Order No:	Hayden

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1		
Sample Method	Earthworks Layer (Compact) AS 1289 1.2.1 (6.4(b))		
Lab Number	W21/7427	W21/7428	
Test Location	Lot 182/183	Lot 184/185	
	Boundary	Boundary	
	Final Level	Final Level	
Layer / Elevation	Allotment Fill	Allotment Fill	
Material Source	Onsite	Onsite	
Depth Tested	175	175	
Layer Thickness	200	200	
Date Tested	08-Jun-21	08-Jun-21	
Material Sampled	After Compaction	After Compaction	
Test Results			
In situ Wet Density (t/m ³)	2.12	1.97	
In situ Moisture Content (%)	N/A	N/A	
PCWD (t/m ³)	2.07	2.03	
Peak Added Moisture (%)	+4.1	+4.2	
Moisture Correction (%)	+4.4	+4.6	
Retaining Sieve (mm)	19.0	19.0	
Percentage Oversize (wet)	0.0	0.0	
HILF DENSITY RATIO (%)	102.5	97.0	
MOISTURE VARIATION (%)			
Compaction Type	Standard	Standard	
Degree of Compaction	95%	95%	
Remarks	Docket #37718		




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REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J21/17
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	14-Jun-21
Project:	Village Green Stage 2 - Bulk Earthworks	Tested by:	SW
Location:	Palmview, Qld	Checked:	DS
Report Number:	53	Page	1 of 1
		Order No:	Hayden

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1		
Sample Method	Earthworks Layer (Compact) AS 1289 1.2.1 (6.4(b))		
Lab Number	W21/7429	W21/7430	W21/7431
Test Location	Roundabout	West of Bio Basin	North West of
Sub Stage 2B	East of Centre Line		Bio Basin
	Final Level	Final Level	Final Level
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	14-Jun-21	14-Jun-21	14-Jun-21
Material Sampled	After Compaction	After Compaction	After Compaction
Test Results			
Insitu Wet Density (t/m ³)	1.95	1.94	2.04
Insitu Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m ³)	2.01	2.03	2.04
Peak Added Moisture (%)	+3.3	+2.1	+3.2
Moisture Correction (%)	+3.7	+2.4	+3.5
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
HILF DENSITY RATIO (%)	97.0	95.5	100.0
MOISTURE VARIATION (%)			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	Docket #37719		




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PO Box 171 Wamuran Qld 4512
296 Old North Road, Wamuran Qld 4512

Phone: 07 5496 6715

Mobile: 0438 924 637

Fax: 07 5496 6717

Email: admin@wagnersoiltesting.com.au


Web: www.wagnersoiltesting.com.au

REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J21/17
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	06-May-21
Project:	Village Green Stage 2 - Bulk Earthworks	Tested by:	SW
Location:	Palmview, Qld	Checked:	JJ
Report Number:	71	Page	1 of 1
		Order No:	Hayden

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1		
Sample Method	Earthworks Layer (Compact)	AS 1289 1.2.1 (6.4(b))	
Lab Number	W21/8340		
Test Location	Lot 138/139		
	3rd Lift		
Layer / Elevation	Swale Backfill		
Material Source	Onsite		
Depth Tested	175		
Layer Thickness	200		
Date Tested	06-May-21		
Material Sampled	After Compaction		
Test Results			
In situ Wet Density (t/m ³)	1.90		
In situ Moisture Content (%)	N/A		
PCWD (t/m ³)	1.96		
Peak Added Moisture (%)	+2.2		
Moisture Correction (%)	+2.5		
Retaining Sieve (mm)	19.0		
Percentage Oversize (wet)	0.0		
HILF DENSITY RATIO (%)	97.0		
MOISTURE VARIATION (%)			
Compaction Type	Standard		
Degree of Compaction	95%		
Remarks	Docket #0		




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REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J21/17
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	07-May-21
Project:	Village Green Stage 2 - Bulk Earthworks	Tested by:	SW
Location:	Palmview, Qld	Checked:	JJ
Report Number:	72	Page	1 of 1
		Order No:	Hayden

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1		
Sample Method	Earthworks Layer (Compact)	AS 1289 1.2.1 (6.4(b))	
Lab Number	W21/8370		
Test Location	Lot 139/140		
	5th Lift		
Layer / Elevation	Swale Backfill		
Material Source	Onsite		
Depth Tested	175		
Layer Thickness	200		
Date Tested	07-May-21		
Material Sampled	After Compaction		
Test Results			
In situ Wet Density (t/m ³)	1.91		
In situ Moisture Content (%)	N/A		
PCWD (t/m ³)	1.98		
Peak Added Moisture (%)	+2.4		
Moisture Correction (%)	+2.7		
Retaining Sieve (mm)	19.0		
Percentage Oversize (wet)	0.0		
HILF DENSITY RATIO (%)	96.5		
MOISTURE VARIATION (%)			
Compaction Type	Standard		
Degree of Compaction	95%		
Remarks			
Docket #0			




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REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J21/17
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	08-May-21
Project:	Village Green Stage 2 - Bulk Earthworks	Tested by:	SW
Location:	Palmview, Qld	Checked:	JJ
Report Number:	73	Page	1 of 1
		Order No:	Hayden

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1		
Sample Method	Earthworks Layer (Compact)	AS 1289 1.2.1 (6.4(b))	
Lab Number	W21/8400		
Test Location	Lot 142/147		
	3rd Lift		
Layer / Elevation	Swale Backfill		
Material Source	Onsite		
Depth Tested	175		
Layer Thickness	200		
Date Tested	08-May-21		
Material Sampled	After Compaction		
Test Results			
In situ Wet Density (t/m ³)	1.94		
In situ Moisture Content (%)	N/A		
PCWD (t/m ³)	2.00		
Peak Added Moisture (%)	+0.4		
Moisture Correction (%)	+0.5		
Retaining Sieve (mm)	19.0		
Percentage Oversize (wet)	0.0		
HILF DENSITY RATIO (%)	97.0		
MOISTURE VARIATION (%)			
Compaction Type	Standard		
Degree of Compaction	95%		
Remarks	Docket #0		



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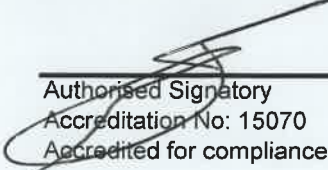
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REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J21/17
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	10-May-21
Project:	Village Green Stage 2 - Bulk Earthworks	Tested by:	SW
Location:	Palmview, Qld	Checked:	JJ
Report Number:	81	Page	1 of 1
		Order No:	Hayden

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1		
Sample Method	Earthworks Layer (Compact)	AS 1289 1.2.1 (6.4(b))	
Lab Number	W21/9270		
Test Location	Lot 14/146		
	5th Lift		
Layer / Elevation	Swale Backfill		
Material Source	Onsite		
Depth Tested	175		
Layer Thickness	200		
Date Tested	10-May-21		
Material Sampled	After Compaction		
Test Results			
In situ Wet Density (t/m ³)	1.94		
In situ Moisture Content (%)	N/A		
PCWD (t/m ³)	1.97		
Peak Added Moisture (%)	+2.3		
Moisture Correction (%)	+2.6		
Retaining Sieve (mm)	19.0		
Percentage Oversize (wet)	0.0		
HILF DENSITY RATIO (%)	98.5		
MOISTURE VARIATION (%)			
Compaction Type	Standard		
Degree of Compaction	95%		
Remarks			
	Docket #0		




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REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J21/17
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	18-May-21
Project:	Village Green Stage 2 - Bulk Earthworks	Tested by:	SW
Location:	Palmview, Qld	Checked:	JJ
Report Number:	82	Page	1 of 1
		Order No:	Hayden

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1		
Sample Method	Earthworks Layer (Compact)	AS 1289 1.2.1 (6.4(b))	
Lab Number	W21/9300		
Test Location	Lot 141/148		
	Final Level		
Layer / Elevation	Swale Backfill		
Material Source	Onsite		
Depth Tested	175		
Layer Thickness	200		
Date Tested	18-May-21		
Material Sampled	After Compaction		
Test Results			
In situ Wet Density (t/m ³)	1.95		
In situ Moisture Content (%)	N/A		
PCWD (t/m ³)	1.98		
Peak Added Moisture (%)	+0.2		
Moisture Correction (%)	+0.3		
Retaining Sieve (mm)	19.0		
Percentage Oversize (wet)	0.0		
HILF DENSITY RATIO (%)	98.5		
MOISTURE VARIATION (%)			
Compaction Type	Standard		
Degree of Compaction	95%		
Remarks			
	Docket #0		




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SOIL TESTING

ABN: 49 416 679 791



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TECHNICAL
COMPETENCE

PO Box 171 Wamuran Qld 4512
296 Old North Road, Wamuran Qld 4512

Phone: 07 5496 6715

Mobile: 0438 924 637

Fax: 07 5496 6717

Email: admin@wagnersoilstesting.com.au


Web: www.wagnersoilstesting.com.au

REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J21/17
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	01-Jun-21
Project:	Village Green Stage 2 - Bulk Earthworks	Tested by:	SW
Location:	Palmview, Qld	Checked:	JJ
Report Number:	88	Page	1 of 1
		Order No:	Hayden

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1		
Sample Method	Earthworks Layer (Compact) AS 1289 1.2.1 (6.4(b))		
Lab Number	W21/9929	W21/9930	
Test Location	Lot 122/123	Lot 129/130	
	Final Level	Final Level	
Layer / Elevation	Swale Backfill	Swale Backfill	
Material Source	Onsite	Onsite	
Depth Tested	175	175	
Layer Thickness	200	200	
Date Tested	01-Jun-21	01-Jun-21	
Material Sampled	After Compaction	After Compaction	
Test Results			
In situ Wet Density (t/m ³)	1.91	1.91	
In situ Moisture Content (%)	N/A	N/A	
PCWD (t/m ³)	1.97	1.97	
Peak Added Moisture (%)	+2.4	+2.3	
Moisture Correction (%)	+2.7	+2.6	
Retaining Sieve (mm)	19.0	19.0	
Percentage Oversize (wet)	0.0	0.0	
HILF DENSITY RATIO (%)	97.0	97.0	
MOISTURE VARIATION (%)			
Compaction Type	Standard	Standard	
Degree of Compaction	95%	95%	
Remarks			
	Docket #0		




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Date 09-11-21

Form No: 95

Version: 3

23-12-20

CONSTRUCTION

MATERIALS

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WAGNER

SOIL TESTING

ABN: 49 416 679 791



ACCREDITED FOR
TECHNICAL
COMPETENCE

PO Box 171 Wamuran Qld 4512
296 Old North Road, Wamuran Qld 4512

Phone: 07 5496 6715

Mobile: 0438 924 637

Fax: 07 5496 6717

Email: admin@wagnersoiltesting.com.au

Web: www.wagnersoiltesting.com.au

REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	Shadforth's Civil Pty Ltd	Job No:	J21/17
Client Address:	99 Sandalwood Lane, Forest Glen Qld 4556	Date:	02-Jun-21
Project:	Village Green Stage 2 - Bulk Earthworks	Tested by:	SW
Location:	Palmview, Qld	Checked:	JJ
Report Number:	98	Page	1 of 1
		Order No:	Hayden

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1		
Sample Method	Earthworks Layer (Compact) AS 1289 1.2.1 (6.4(b))		
Lab Number	W21/11159	W21/11160	
Test Location	Lot 135/136	Lot 146/145	
	Final Level	Final Level	
Layer / Elevation	Swale Backfill	Swale Backfill	
Material Source	Onsite	Onsite	
Depth Tested	175	175	
Layer Thickness	200	200	
Date Tested	02-Jun-21	02-Jun-21	
Material Sampled	After Compaction	After Compaction	
Test Results			
Insitu Wet Density (t/m ³)	1.93	1.94	
Insitu Moisture Content (%)	N/A	N/A	
PCWD (t/m ³)	1.97	2.00	
Peak Added Moisture (%)	+0.3	+0.3	
Moisture Correction (%)	+0.4	+0.4	
Retaining Sieve (mm)	19.0	19.0	
Percentage Oversize (wet)	0.0	0.0	
HILF DENSITY RATIO (%)	97.5	97.0	
MOISTURE VARIATION (%)			
Compaction Type	Standard	Standard	
Degree of Compaction	95%	95%	
Remarks	Docket #0		




 Authorised Signatory
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Appendix 3 – Typical Site Conditions





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Appendix 4 – Site Information

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.