PROTEST
CONSTRUCTION MATERIALS TESTING

Prepared for: Shadforths Civil

Level 1 Earthworks Report
Woodlinks Village - Stage 25

23 April 2025 | PTP/14690 – 0002 - Rev0

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REPORT DETAILS

Unique Document Identification

Item	Description
Document Title	Level 1 Earthworks Report
Project Number	PTP/14690
Document ID	PTP/14690 – 0002 - Rev0
Client	Shadforths Civil
Client Contact	Darren Grant

Protest Office Details

Item	Description
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Revision Details

Revision No.	Date	Comments
0	23/04/2025	Final Report Issued

Document Approval

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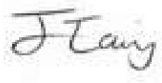
Reviewed By



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1 INTRODUCTION

This report summarises the results of inspection and testing provided by Protest CMT (Protest) for the bulk earthworks as part of the Woodlinks Village - Stage 25 project undertaken between 15/01/2025 to 31/03/2025. The works were undertaken at the request of Shadforths Civil.

The scope of inspection and testing undertaken was in general accordance with AS3798-2007 – '*Guidelines on Earthworks for Commercial and Residential Developments'*. As part of the inspection and testing undertaken, Protest provided Level 1 supervision in accordance with Section 8.2 of AS3798-2007. Figure 1 indicates the approximate extent of Level 1 works carried out.

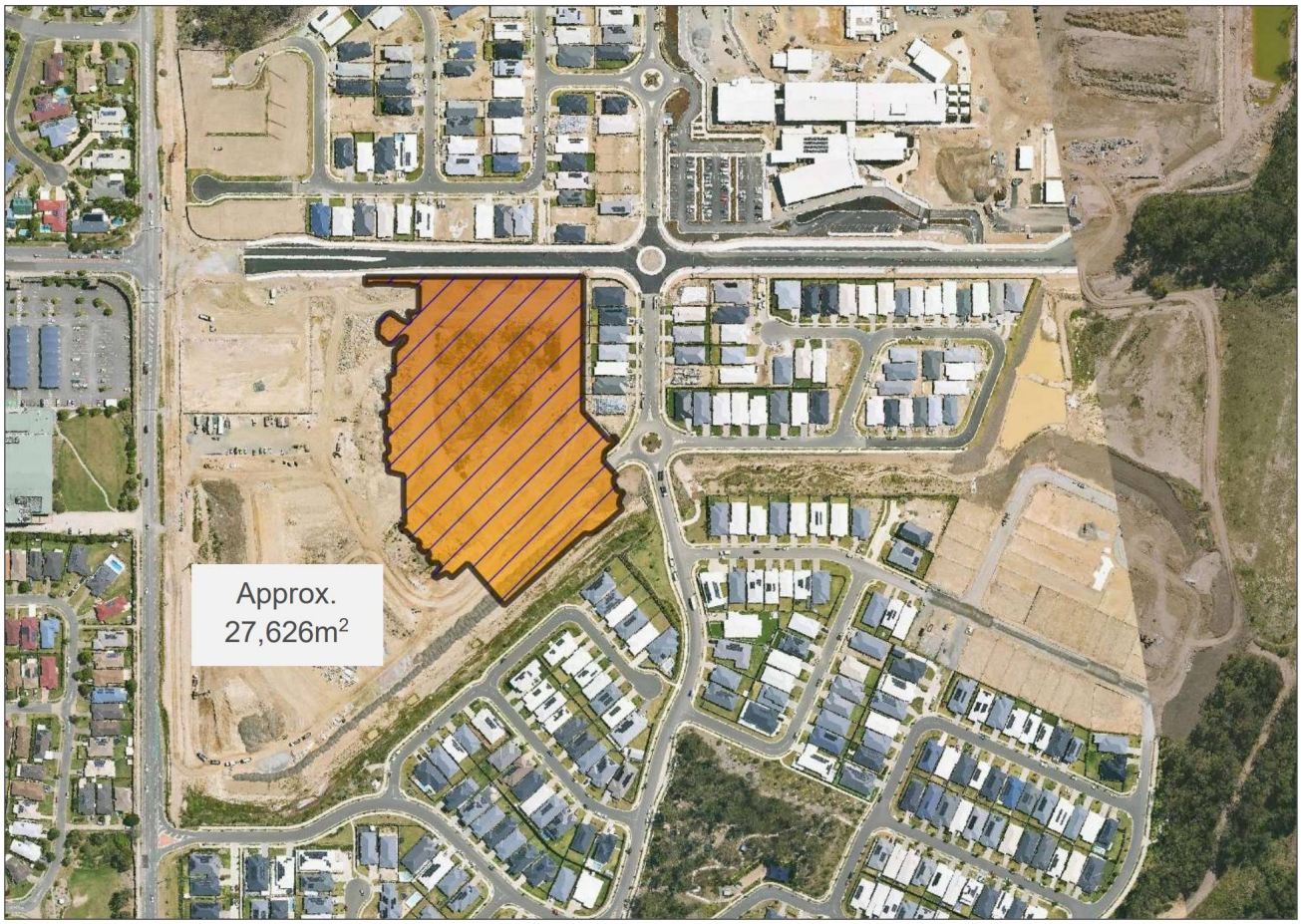


Figure 1: Approximate extent of level 1 works (Image extracted from MetroMap, dated 25/08/2024)

Approximately 20,380m^3 of fill was placed on site, Drawing No. 23-0222-0110-RevA – *BULK EARTHWORKS LAYOUT PLAN* attached is the bulk earthworks cut to fill plan. The frequency of field density testing adopted for this project was based on AS3798-2007, Table 8.1 – '*Frequency of Field Density Tests*' with a minimum of one test per 500m^3 placed for a Type 1 - *Large Scale Operation.*

Based on the information provided within the notes of Drawing No. 23-0222-0101-RevA – *GENERAL NOTES*, the minimum relative compaction requirements were specified. A summary of the criteria is shown below in Table 1.

Table 1: Test Request Compaction and Moisture Content Specification

Fill Type	Dry Density Ratio	Moisture Variation
Residential General Fill	≥95%	±2% (Dry/Wet of OMC)

(Note: OMC = Optimum Moisture Content)

2 REGIONAL GEOLOGY

Based on the information provided by the Queensland Geotechnical Database, the site is underlain by the (Rbwc) Late Triassic Aged Raceview formation. This formation comprises;

- Rbwc - Sublabile to quartzose sandstone, shale, mudstone, thin coal seams, siltstone.

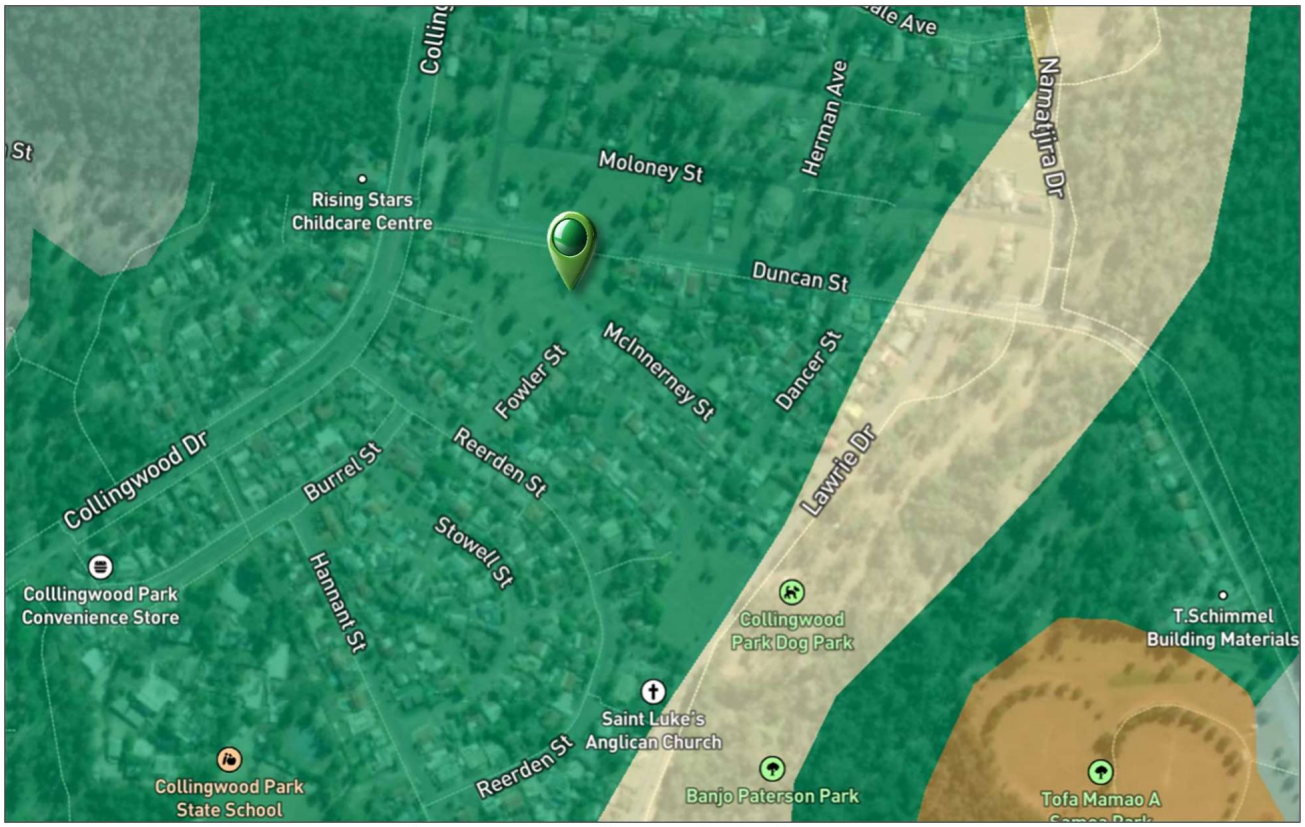


Figure 2: Geological formations map (Image extracted from qgd.org.au)

3 EARTHWORKS ACTIVITIES

Foundation preparation observed by Protest comprised the removal of topsoil and unsuitable materials across the cut to fill area exposing the underlying natural materials. A proof roll was performed on the natural soils using a Padfoot Roller and no noticeable movement was observed on the final pass.

Figure 3: Filling and compaction operations in progress – (15/01/2025)

Following successful proof rolling, filling operations comprised the placement and compaction of material obtained from an onsite source, which were typically clay-based soils. Materials were placed onsite in uniform layers not exceeding 300mm thick, with the plant detailed below. The material used as fill was moisture conditioned at the fill source and during placement and blended to achieve suitable moisture content for compaction.

The following heavy plant were used throughout the bulk earthworks component:

- Padfoot Roller
- Dump Truck
- Dozer
- Water Truck
- Compactor
- Excavator

A total of forty-three (43) field density ratio tests were undertaken at locations selected by Protest during the filling operations. Field density testing was carried out using a nuclear gauge and in accordance with the test method outlined in AS1289.5.8.1. The relative compaction was then determined by comparing the recorded field density with the laboratory compaction control test (standard compaction) outlined in test method AS1289.5.7.1.

A summary of the test results is presented in Table 2 with the individual reports attached and the approximate test locations are shown on the marked earthworks layout plan attached. These test locations and levels were not obtained by survey and therefore should only be considered as approximate. Figures 4 and 5 are images that were taken during the earthworks and show general filling operations.

Table 2. Summary of Density Testing

Item	Compaction	Moisture Variation
Number of tests	43	43
Mean	99.8%	0.9% (Dry of OMC)

(Note: OMC = Optimum Moisture Content)

Figure 4: Compaction and proof rolling operations in progress – (28/01/2025)

Figure 5: Compaction and moisture conditioning operations in progress – (05/02/2025)

4 COMPLIANCE

As far as it has been able to determine, it is our opinion that the bulk earthworks placed and compacted at Woodlinks Village - Stage 25 by Shadforths Civil between 15/01/2025 to 31/03/2025 comply with the above-mentioned specifications and can be considered as Level 1 '*controlled*' fill as defined in AS3798-2007 – 'Guidelines on earthworks for commercial and residential developments'.

5 COMMENTS

Based on the results of the inspections and field density testing whilst Protest were on-site, it is considered that the bulk earthworks at Woodlinks Village - Stage 25 between 15/01/2025 to 31/03/2025 have been undertaken in general accordance with AS3798-2007 – '*Guidelines on Earthworks for Commercial and Residential Developments*'. Protest believes consideration should be given to the following:

- This report only certifies the bulk earthworks activities supervised by Protest between 15/01/2025 to 31/03/2025. Protest does not take responsibility for any other bulk earthworks activities that have occurred before or after these dates;
- The installation of services or any activities that may cause disruption of the compacted filling;
- The suitability of the filled land to support the proposed structures; and
- Any variation in filling depth of extent of areas that is not noted within this report or on the individual test report sheets.

6 LIMITATIONS

Protest CMT ("Protest") has prepared this report for the bulk earthworks at Woodlinks Village - Stage 25. This report was produced for the sole use of Shadforths Civil. This Report should not be used or relied upon for any other purpose without Protest's prior written consent. Protest does not accept any responsibility or liability in any way whatsoever for the use or reliance of this Report by anyone other than the Client, its designers, its clients, and relevant statutory authorities or by anyone else for any purpose other than that for which it has been prepared. In the preparation of this report Protest has relied upon information provided by the client and/or their agents.

Assessments of material quality such as soaked CBR and site classifications are excluded from this commission. This report is not to be relied upon for settlement analysis and soft soils engineering advice. This is beyond the scope of this report and outside our engagement.

Our onsite attendance specifically excludes assessments of fill material quality and engineering properties that are outside the requirements of AS3798-2007, including soil or fill reactivity and soaked CBR values. We note that the fill materials used may result in unfavourable site classifications and low subgrade design strengths.

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 Protest 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 Protest and, if required, amendments made.

Protest 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.

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

The Following should also be considered:

- This report is not a SITE CLASS REPORT as per AS2870-2011 and not a Geotechnical Site Investigation report as per AS1726-2017;
- The shrink/swell movements which can occur in the residual silty clays due to weather related natural moisture changes by the reduction in surface evaporation subsequent to covering the site with buildings and pavements. As outlined in AS2870-2011 – '*Residential Slabs and Footings*';
- It should be noted that there is a possibility that compaction levels may have increased during placement of subsequent layers especially when there have been fully laden earthmoving equipment frequently travel across the fill areas exerting high traffic loads; and
- All compacted filling is subject to decompaction phenomenon.

Protest does not accept any liability or responsibility whatsoever for, or in respect of, any use or reliance upon this Report by any other party. Protest is not obliged to enter into discussions with any third party in respect of this Report.

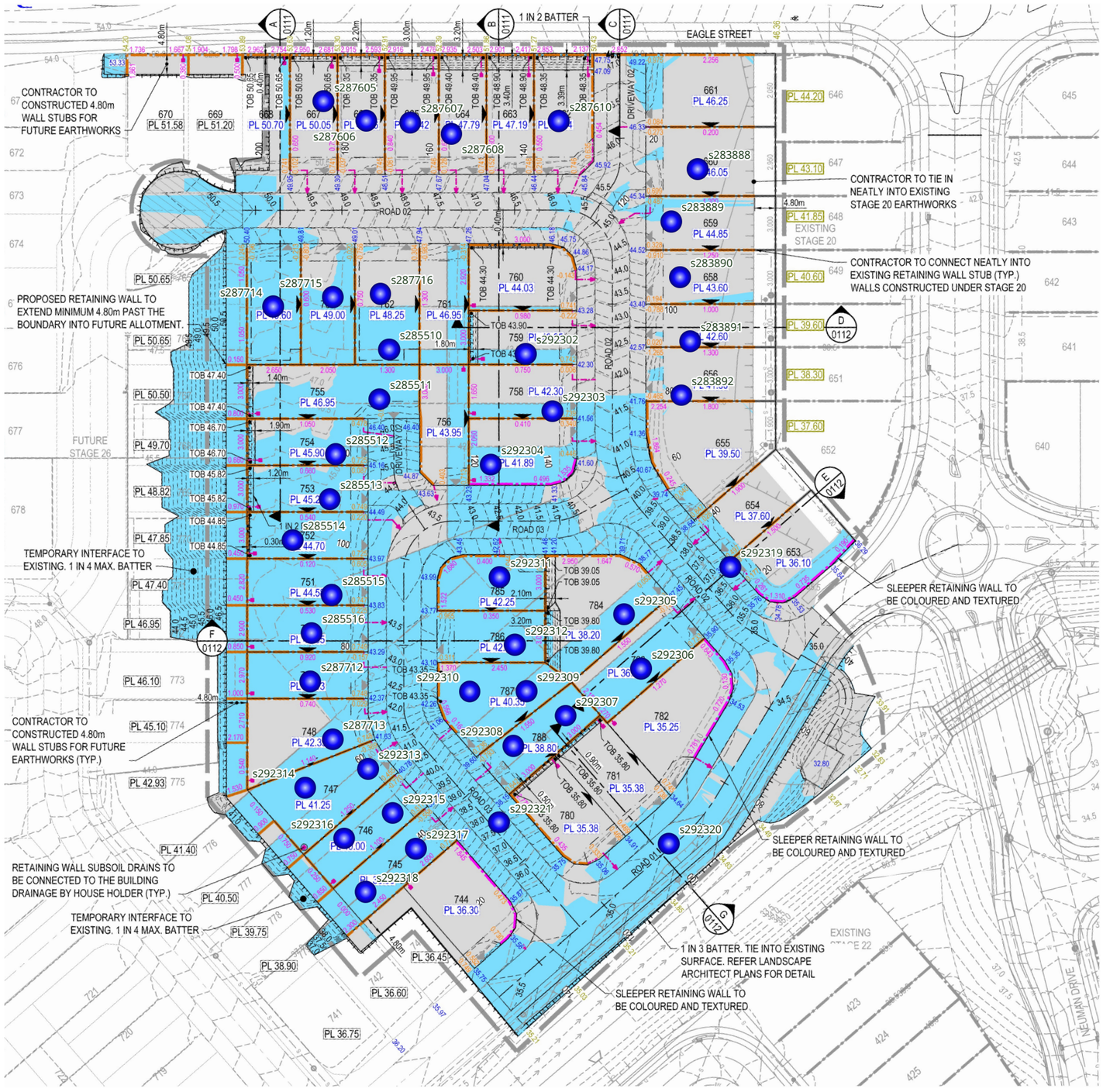
We trust that the above information is suitable for your present requirements. Should you have any queries, please do not hesitate to contact this office.

Appendices:
A. Site Plan & Testing Locations.
B. Laboratory Test Reports.

01

Appendix A

Site Plan & Testing Locations



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LEGEND

TEST LOCATION

Map Description :	LEVEL 1 TEST LOCATIONS				
Client :	SHADFORTHS CIVIL	Site :	COLLINGWOOD DRIVE, COLLINGWOOD PARK, QLD 4301		
Project :	WOODLINKS VILLAGE - STAGE 25				
Project No :	PTP/14690	Date :	15/04/2025	Scale :	Not to Scale

02

Appendix B
Laboratory Test Reports

Protest CMT
ABN: 26602913673
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Soil Compaction and Density Tests Report - Compaction Control

Client :	**Shadforths**	Report Number :	**SR/PTP/14690 - 17/1**
Client Address :	**99 Sandalwood Lane, Forest Glen, 4556, QLD**	Report Date :	**11/03/2025**
Project Name :	**Woodlinks Village - Stage 25**	Test Request :	-
Project Number :	**PTP/14690**	**Page 1 of 1**	
Location :	**Collingwood Park**		

Test Methods :	**AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1**

Sample Number :	S/288892	S/288894	S/288895	S/288896	S/288897	S/288898
Date/s Tested :	25/02/2025 - 11/03/2025	25/02/2025 - 11/03/2025	25/02/2025 - 11/03/2025	25/02/2025 - 11/03/2025	25/02/2025 - 11/03/2025	25/02/2025 - 11/03/2025
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
For use as :	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill
Test / Layer Depths :	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b
Time :	08:53	08:59	09:01	09:03	09:05	09:07
Lot Number :	-	-	-	-	-	-
Location 1 :	Sewer	Sewer	Sewer	Sewer	Sewer	Sewer
Location 2 :	4/2 - 5/2	4/2 - 5/2	6/2 - 2/7	6/2 - 2/7	7/2 - 6/2	7/2 - 6/2
Location 3 :	5m From 4/2	12m From 4/2	3m From 6/2	14m From 6/2	6m From 7/2	15m From 7/2
Location 4 :	0.9m Below Finish Level	Finish Level	0.9m Below Finish Level	Finish Level	0.9m Below Finish Level	Finish Level
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	0%	0%	0%	0%	0%	0%
Oversize Density - Dry (t/m³) :	-	-	-	-	-	-
Assigned MDR (Yes/No) :	No	No	No	No	No	No
MDR Sample Number :	S/288892	S/288894	S/288895	S/288896	S/288897	S/288898
MDR Test Date(s) :	25/02/2025 - 11/03/2025	25/02/2025 - 11/03/2025	25/02/2025 - 11/03/2025	25/02/2025 - 11/03/2025	25/02/2025 - 11/03/2025	25/02/2025 - 11/03/2025
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std
Soil Description :	(CL, CI) - Sandy CLAY - Brown	(CL, CI) - Sandy CLAY - Brown	(CL, CI) - Sandy CLAY - Brown	(CL, CI) - Sandy CLAY - Brown	(CL, CI) - Sandy CLAY - Brown	(CL, CI) - Sandy CLAY - Brown
MDR Test Results						
PCWD (t/m3) :	1.98	1.96	2.08	2.04	2.00	2.01
Moisture Variation :	2.5%	2.5%	4.5%	3.0%	3.5%	3.5%
ADJ PCWD (t/m3) :	-	-	-	-	-	-
ADJ Moisture Variation :	-	-	-	-	-	-
Moisture Test Results :						
Field Moisture Content :	13.0%	12.5%	12.5%	12.5%	11.5%	12.5%
Moisture Specification :	-	-	-	-	-	-
Variation from OMC :	**2.5% Dry of OMC**	**2.5% Dry of OMC**	**4.5% Dry of OMC**	**3.0% Dry of OMC**	**3.5% Dry of OMC**	**3.5% Dry of OMC**
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A
Density Test Results						
Field Wet Density (t/m3) :	2.01	2.00	2.00	2.05	2.05	2.04
Density Specification :	95%	95%	95%	95%	95%	95%
Wet Density Ratio :	**101.0%**	**102.5%**	**96.5%**	**101.0%**	**102.5%**	**101.5%**

Remarks :	

NATA
WORLD RECOGNISED ACCREDITATION

Note: The results contained in this report relate only to the item/s that were tested/sampled

Accredited for Compliance with ISO/ IEC 17025 - Testing
Protest Engineering (Darra) Accreditation Number - 2851
Base Laboratory Site Number - 2844 - Darra

Base Laboratory Address - 1-2/35 Limestone Street, Darra, 4076, QLD

APPROVED SIGNATORY

Timothy Watson - Signatory

Protest CMT
ABN: 26602913673
www.protestcmt.com.au

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CONSTRUCTION MATERIALS TESTING

Soil Compaction and Density Tests Report - Compaction Control

Client :	**Shadforths**	Report Number :	**SR/PTP/14690 - 19/1**
Client Address :	**99 Sandalwood Lane, Forest Glen, 4556, QLD**	Report Date :	**12/03/2025**
Project Name :	**Woodlinks Village - Stage 25**	Test Request :	-
Project Number :	**PTP/14690**	**Page 1 of 1**	
Location :	**Collingwood Park**		

Test Methods :	**AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1**

Sample Number :	S/290125	S/290126	S/290127	S/290128		
Date/s Tested :	04/03/2025 - 12/03/2025	04/03/2025 - 12/03/2025	04/03/2025 - 12/03/2025	04/03/2025 - 12/03/2025		
Material Source :	Onsite	Onsite	Onsite	Onsite		
For use as :	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill		
Test / Layer Depths :	150 / 175	150 / 175	150 / 175	150 / 175		
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b		
Time :	08:51	08:53	08:55	08:57		
Lot Number :	-	-	-	-		
Location 1 :	Sewer	Sewer	Sewer	Sewer		
Location 2 :	2/2 - 3/2	3/2 - 1/4	1/4 - 2/4	1/4 - 1/5		
Location 3 :	6m From 2/2	5m From 3/2	3m From 1/4	7m From 1/5		
Location 4 :	0.9m Below Finish Level	Finish Level	0.9m Below Finish Level	Finish Level		
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm		
Oversize Wet :	0%	0%	0%	0%		
Oversize Density - Dry (t/m³) :	-	-	-	-		
Assigned MDR (Yes/No) :	No	No	No	No		
MDR Sample Number :	S/290125	S/290126	S/290127	S/290128		
MDR Test Date(s) :	04/03/2025 - 12/03/2025	04/03/2025 - 12/03/2025	04/03/2025 - 12/03/2025	04/03/2025 - 12/03/2025		
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std		
Soil Description :	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY		
MDR Test Results						
PCWD (t/m3) :	2.06	2.10	2.10	2.04		
Moisture Variation :	2.0%	2.5%	2.0%	2.0%		
ADJ PCWD (t/m3) :	-	-	-	-		
ADJ Moisture Variation :	-	-	-	-		
Moisture Test Results :						
Field Moisture Content :	9.0%	10.0%	10.0%	12.5%		
Moisture Specification :	-	-	-	-		
Variation from OMC :	**2.0% Dry of OMC**	**2.5% Dry of OMC**	**2.0% Dry of OMC**	**2.0% Dry of OMC**		
Moisture Ratio :	N/A	N/A	N/A	N/A		
Density Test Results						
Field Wet Density (t/m3) :	1.97	2.00	2.00	1.95		
Density Specification :	95%	95%	95%	95%		
Wet Density Ratio :	**96.0%**	**95.0%**	**95.5%**	**95.5%**		

Remarks :	

NATA
WORLD RECOGNISED ACCREDITATION

Note: The results contained in this report relate only to the item/s that were tested/sampled

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Protest Engineering (Darra) Accreditation Number - 2851
Base Laboratory Site Number - 2844 - Darra

Base Laboratory Address - 1-2/35 Limestone Street, Darra, 4076, QLD

APPROVED SIGNATORY

Timothy Watson - Signatory

Protest CMT
ABN: 26602913673
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Soil Compaction and Density Tests Report - Compaction Control

Client :	**Shadforths**	Report Number :	**SR/PTP/14690 - 20/1**
Client Address :	**99 Sandalwood Lane, Forest Glen, 4556, QLD**	Report Date :	**12/03/2025**
Project Name :	**Woodlinks Village - Stage 25**	Test Request :	-
Project Number :	**PTP/14690**	**Page 1 of 4**	
Location :	**Collingwood Park**		

Test Methods :	**AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1**

Sample Number :	S/288692	S/288693	S/288694	S/288695	S/288696	S/288697
Date/s Tested :	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
For use as :	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill
Test / Layer Depths :	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b
Time :	08:50	08:52	08:54	08:59	09:01	09:04
Lot Number :	-	-	-	-	-	-
Location 1 :	Sewer	Sewer	Sewer	Sewer	Sewer	Sewer
Location 2 :	1A/10 - 1/10	1A/10 - 1/10	1/10 - 2/10	1/10 - 2/10	2/10 - 3/10	2/10 - 3/10
Location 3 :	2m From 1A/10	7m From 1A/10	7m From 1/10	3m From 1/10	3m From 3/10	5m From 2/10
Location 4 :	0.9m Below Finish Level	Finish Level	0.9m Below Finish Level	Finish Level	0.9m Below Finish Level	Finish Level
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	0%	0%	0%	0%	0%	0%
Oversize Density - Dry (t/m³) :	-	-	-	-	-	-
Assigned MDR (Yes/No) :	No	No	No	No	No	No
MDR Sample Number :	S/288692	S/288693	S/288694	S/288695	S/288696	S/288697
MDR Test Date(s) :	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std
Soil Description :	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY
MDR Test Results						
PCWD (t/m3) :	2.07	1.99	2.01	2.04	2.08	2.05
Moisture Variation :	3.0%	4.5%	4.0%	4.5%	4.0%	2.0%
ADJ PCWD (t/m3) :	-	-	-	-	-	-
ADJ Moisture Variation :	-	-	-	-	-	-
Moisture Test Results :						
Field Moisture Content :	13.0%	12.5%	12.5%	12.5%	12.0%	12.0%
Moisture Specification :	-	-	-	-	-	-
Variation from OMC :	**3.0% Dry of OMC**	**4.5% Dry of OMC**	**4.0% Dry of OMC**	**4.5% Dry of OMC**	**4.0% Dry of OMC**	**2.0% Dry of OMC**
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A
Density Test Results						
Field Wet Density (t/m3) :	2.04	2.04	2.01	2.12	2.12	2.12
Density Specification :	95%	95%	95%	95%	95%	95%
Wet Density Ratio :	**98.5%**	**102.5%**	**100.0%**	**104.0%**	**101.5%**	**103.5%**

Remarks :	

NATA
WORLD RECOGNISED ACCREDITATION

Note: The results contained in this report relate only to the item/s that were tested/sampled

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PROTEST
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Soil Compaction and Density Tests Report - Compaction Control

Client :	**Shadforths**	Report Number :	**SR/PTP/14690 - 20/1**
Client Address :	**99 Sandalwood Lane, Forest Glen, 4556, QLD**	Report Date :	**12/03/2025**
Project Name :	**Woodlinks Village - Stage 25**	Test Request :	-
Project Number :	**PTP/14690**		
Location :	**Collingwood Park**		

Test Methods :	**AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1**

Sample Number :	S/288698	S/288699	S/288700	S/288701	S/288754	S/288755
Date/s Tested :	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
For use as :	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill
Test / Layer Depths :	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b
Time :	09:06	09:09	09:11	09:13	11:16	11:21
Lot Number :	-	-	-	-	-	-
Location 1 :	Sewer	Sewer	Sewer	Sewer	Sewer	Sewer
Location 2 :	3/10 - 4/10	3/10 - 4/10	5/10 - 6/10	5/10 - 6/10	6/10 - 7/10	6/10 - 7/10
Location 3 :	8m From 3/10	10m From 4/10	12m From 5/10	14m From 6/10	12m From 7/10	7m From 6/10
Location 4 :	0.9m Below Finish Level	Finish Level	0.9m Below Finish Level	Finish Level	0.9m Below Finish Level	Finish Level
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	0%	0%	0%	0%	0%	0%
Oversize Density - Dry (t/m³) :	-	-	-	-	-	-
Assigned MDR (Yes/No) :	No	No	No	No	No	No
MDR Sample Number :	S/288698	S/288699	S/288700	S/288701	S/288754	S/288755
MDR Test Date(s) :	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std
Soil Description :	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY
MDR Test Results						
PCWD (t/m3) :	2.14	2.15	2.15	2.15	1.93	1.94
Moisture Variation :	2.5%	2.0%	2.0%	2.5%	2.5%	2.0%
ADJ PCWD (t/m3) :	-	-	-	-	-	-
ADJ Moisture Variation :	-	-	-	-	-	-
Moisture Test Results :						
Field Moisture Content :	12.5%	12.0%	12.0%	12.0%	12.0%	12.0%
Moisture Specification :	-	-	-	-	-	-
Variation from OMC :	**2.5% Dry of OMC**	**2.0% Dry of OMC**	**2.0% Dry of OMC**	**2.5% Dry of OMC**	**2.5% Dry of OMC**	**2.0% Dry of OMC**
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A
Density Test Results						
Field Wet Density (t/m3) :	2.11	2.12	2.12	2.12	1.91	1.94
Density Specification :	95%	95%	95%	95%	95%	95%
Wet Density Ratio :	**99.0%**	**98.5%**	**99.0%**	**98.5%**	**99.0%**	**100.0%**

Remarks :	

NATA
WORLD RECOGNISED ACCREDITATION

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Accredited for Compliance with ISO/ IEC 17025 - Testing
Protest Engineering (Darra) Accreditation Number - 2851
Base Laboratory Site Number - 2844 - Darra

Base Laboratory Address - 1-2/35 Limestone Street, Darra, 4076, QLD

APPROVED SIGNATORY

Timothy Watson - Signatory

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PROTEST
CONSTRUCTION MATERIALS TESTING

Soil Compaction and Density Tests Report - Compaction Control

Client :	**Shadforths**	Report Number :	**SR/PTP/14690 - 20/1**
Client Address :	**99 Sandalwood Lane, Forest Glen, 4556, QLD**	Report Date :	**12/03/2025**
Project Name :	**Woodlinks Village - Stage 25**	Test Request :	-
Project Number :	**PTP/14690**		
Location :	**Collingwood Park**		

Test Methods :	**AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1**

Sample Number :	S/288756	S/288757	S/288758	S/288759	S/288760	S/288761
Date/s Tested :	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
For use as :	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill
Test / Layer Depths :	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b
Time :	11:23	11:26	11:28	11:30	11:32	11:34
Lot Number :	-	-	-	-	-	-
Location 1 :	Sewer	Sewer	Sewer	Sewer	Sewer	Sewer
Location 2 :	6/10 - E/12	3/9 - 1/19	3/9 - 1/19	1/19 - 2/19	1/19 - 2/19	2/19 - 3/19
Location 3 :	3m From 6/10	7m From 3/9	11m From 3/9	4m From 1/19	8m From 1/19	22m From 2/19
Location 4 :	0.9m Below Finish Level	Finish Level	0.9m Below Finish Level	Finish Level	0.9m Below Finish Level	Finish Level
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	0%	0%	0%	0%	0%	0%
Oversize Density - Dry (t/m³) :	-	-	-	-	-	-
Assigned MDR (Yes/No) :	No	No	No	No	No	No
MDR Sample Number :	S/288756	S/288757	S/288758	S/288759	S/288760	S/288761
MDR Test Date(s) :	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std
Soil Description :	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY
MDR Test Results						
PCWD (t/m3) :	1.96	1.97	1.97	1.97	1.96	1.97
Moisture Variation :	2.5%	2.5%	2.5%	2.0%	2.5%	2.5%
ADJ PCWD (t/m3) :	-	-	-	-	-	-
ADJ Moisture Variation :	-	-	-	-	-	-
Moisture Test Results :						
Field Moisture Content :	12.0%	11.5%	11.5%	12.0%	11.0%	11.0%
Moisture Specification :	-	-	-	-	-	-
Variation from OMC :	**2.5% Dry of OMC**	**2.5% Dry of OMC**	**2.5% Dry of OMC**	**2.0% Dry of OMC**	**2.5% Dry of OMC**	**2.5% Dry of OMC**
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A
Density Test Results						
Field Wet Density (t/m3) :	1.93	1.94	1.94	1.94	1.94	1.94
Density Specification :	95%	95%	95%	95%	95%	95%
Wet Density Ratio :	**98.0%**	**98.5%**	**98.5%**	**98.0%**	**99.0%**	**98.5%**

Remarks :	

NATA
WORLD RECOGNISED ACCREDITATION

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Accredited for Compliance with ISO/ IEC 17025 - Testing
Protest Engineering (Darra) Accreditation Number - 2851
Base Laboratory Site Number - 2844 - Darra

Base Laboratory Address - 1-2/35 Limestone Street, Darra, 4076, QLD

APPROVED SIGNATORY

Timothy Watson - Signatory

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PROTEST
CONSTRUCTION MATERIALS TESTING

Soil Compaction and Density Tests Report - Compaction Control

Client :	**Shadforths**	Report Number :	**SR/PTP/14690 - 20/1**
Client Address :	**99 Sandalwood Lane, Forest Glen, 4556, QLD**	Report Date :	**12/03/2025**
Project Name :	**Woodlinks Village - Stage 25**	Test Request :	-
Project Number :	**PTP/14690**	**Page 4 of 4**	
Location :	**Collingwood Park**		

Test Methods :	**AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1**

Sample Number :	S/288762	S/288763	S/288764			
Date/s Tested :	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025			
Material Source :	Onsite	Onsite	Onsite			
For use as :	Trench Backfill	Trench Backfill	Trench Backfill			
Test / Layer Depths :	150 / 175	150 / 175	150 / 175			
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b			
Time :	11:38	11:39	11:42			
Lot Number :	-	-	-			
Location 1 :	Sewer	Sewer	Sewer			
Location 2 :	2/19 - 3/19	3/19 - 4/19	3/19 - 4/19			
Location 3 :	32m From 2/19	8m From 3/19	42m From 3/19			
Location 4 :	0.9m Below Finish Level	Finish Level	0.9m Below Finish Level			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm			
Oversize Wet :	0%	0%	0%			
Oversize Density - Dry (t/m³) :	-	-	-			
Assigned MDR (Yes/No) :	No	No	No			
MDR Sample Number :	S/288762	S/288763	S/288764			
MDR Test Date(s) :	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025	24/02/2025 - 12/03/2025			
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std			
Soil Description :	Sandy CLAY	Sandy CLAY	Sandy CLAY			
MDR Test Results						
PCWD (t/m3) :	2.01	2.00	2.00			
Moisture Variation :	2.5%	2.5%	2.0%			
ADJ PCWD (t/m3) :	-	-	-			
ADJ Moisture Variation :	-	-	-			
Moisture Test Results :						
Field Moisture Content :	9.5%	10.0%	9.0%			
Moisture Specification :	-	-	-			
Variation from OMC :	**2.5% Dry of OMC**	**2.5% Dry of OMC**	**2.0% Dry of OMC**			
Moisture Ratio :	N/A	N/A	N/A			
Density Test Results						
Field Wet Density (t/m3) :	1.96	1.94	1.96			
Density Specification :	95%	95%	95%			
Wet Density Ratio :	**97.5%**	**97.0%**	**97.5%**			

Remarks :	

NATA
WORLD RECOGNISED ACCREDITATION

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Accredited for Compliance with ISO/ IEC 17025 - Testing
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Base Laboratory Site Number - 2844 - Darra

Base Laboratory Address - 1-2/35 Limestone Street, Darra, 4076, QLD

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PROTEST
CONSTRUCTION MATERIALS TESTING

Soil Compaction and Density Tests Report - Compaction Control

Client :	**Shadforths**	Report Number :	**SR/PTP/14690 - 21/1**
Client Address :	**99 Sandalwood Lane, Forest Glen, 4556, QLD**	Report Date :	**13/03/2025**
Project Name :	**Woodlinks Village - Stage 25**	Test Request :	-
Project Number :	**PTP/14690**	**Page 1 of 1**	
Location :	**Collingwood Park**		

Test Methods :	**AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1**

Sample Number :	S/288528	S/288532	S/288533	S/288534	S/288535	S/288536
Date/s Tested :	21/02/2025 - 13/03/2025	21/02/2025 - 13/03/2025	21/02/2025 - 13/03/2025	21/02/2025 - 13/03/2025	21/02/2025 - 13/03/2025	21/02/2025 - 13/03/2025
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
For use as :	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill
Test / Layer Depths :	175 / 200	175 / 200	175 / 200	175 / 200	175 / 200	175 / 200
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b
Time :	10:41	10:43	10:46	10:54	10:56	10:59
Lot Number :	-	-	-	-	-	-
Location 1 :	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing
Location 2 :	J1/10 - E/29	J1/10 - E/29	J1/10 - E/29	J1/10 - E/11	J1/10 - E/11	J1/10 - E/11
Location 3 :	3m From J1/10	5m From J1/10	1m From J1/10	4m From J1/10	5m From J1/10	2m From J1/10
Location 4 :	0.6m Below Finish Level	0.3m Below Finish Level	Finish Level	0.6m Below Finish Level	0.3m Below Finish Level	Finish Level
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	0%	0%	7%	7%	0%	1%
Oversize Density - Dry (t/m³) :	-	-	2.32	2.52	-	2.36
Assigned MDR (Yes/No) :	No	No	No	No	No	No
MDR Sample Number :	S/288528	S/288532	S/288533	S/288534	S/288535	S/288536
MDR Test Date(s) :	21/02/2025 - 13/03/2025	21/02/2025 - 13/03/2025	21/02/2025 - 13/03/2025	21/02/2025 - 13/03/2025	21/02/2025 - 13/03/2025	21/02/2025 - 13/03/2025
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std
Soil Description :	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY
MDR Test Results						
PCWD (t/m3) :	2.05	2.03	2.04	2.05	2.05	2.02
Moisture Variation :	0.0%	1.5%	0.5%	1.5%	0.0%	5.0%
ADJ PCWD (t/m3) :	-	-	2.06	2.08	-	2.02
ADJ Moisture Variation :	-	-	0.5%	1.5%	-	5.0%
Moisture Test Results :						
Field Moisture Content :	14.5%	15.0%	13.0%	12.5%	14.5%	15.0%
Moisture Specification :	-	-	-	-	-	-
Variation from OMC :	**0.0% Wet of OMC**	**1.5% Dry of OMC**	**0.5% Dry of OMC**	**1.5% Dry of OMC**	**0.0% Wet of OMC**	**5.0% Dry of OMC**
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A
Density Test Results						
Field Wet Density (t/m3) :	2.02	2.01	2.01	2.02	2.02	1.98
Density Specification :	95%	95%	95%	95%	95%	95%
Wet Density Ratio :	**98.0%**	**99.5%**	**97.5%**	**97.0%**	**98.5%**	**98.0%**

Remarks :	

NATA
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Accredited for Compliance with ISO/ IEC 17025 - Testing
Protest Engineering (Darra) Accreditation Number - 2851
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Base Laboratory Address - 1-2/35 Limestone Street, Darra, 4076, QLD

APPROVED SIGNATORY

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PROTEST
CONSTRUCTION MATERIALS TESTING

Soil Compaction and Density Tests Report - Compaction Control

Client :	**Shadforths**	Report Number :	**SR/PTP/14690 - 22/1**
Client Address :	**99 Sandalwood Lane, Forest Glen, 4556, QLD**	Report Date :	**13/03/2025**
Project Name :	**Woodlinks Village - Stage 25**	Test Request :	-
Project Number :	**PTP/14690**	**Page 1 of 2**	
Location :	**Collingwood Park**		

Test Methods :	**AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1**

Sample Number :	S/288901	S/288902	S/288903	S/288904	S/288905	S/288921
Date/s Tested :	25/02/2025 - 13/03/2025	25/02/2025 - 13/03/2025	25/02/2025 - 13/03/2025	25/02/2025 - 13/03/2025	25/02/2025 - 13/03/2025	25/02/2025 - 13/03/2025
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
For use as :	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill
Test / Layer Depths :	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b
Time :	09:09	09:10	09:12	09:14	09:20	09:22
Lot Number :	-	-	-	-	-	-
Location 1 :	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing
Location 2 :	2/7 - E/7	2/7 - E/7	2/7 - E/7	2/7 - E/7	2/7 - E/7	J3/2 - E/6
Location 3 :	2m From E/7	3m From E/7	7m From E/7	9m From E/7	11m From E/7	3m From E/6
Location 4 :	1.2m Below Finish Level	0.9m Below Finish Level	0.6m Below Finish Level	0.3m Below Finish Level	Finish Level	1.2m Below Finish Level
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	8%	13%	0%	0%	0%	0%
Oversize Density - Dry (t/m³) :	1.77	2.38	-	-	-	-
Assigned MDR (Yes/No) :	No	No	No	No	No	No
MDR Sample Number :	S/288901	S/288902	S/288903	S/288904	S/288905	S/288921
MDR Test Date(s) :	25/02/2025 - 13/03/2025	25/02/2025 - 13/03/2025	25/02/2025 - 13/03/2025	25/02/2025 - 13/03/2025	25/02/2025 - 13/03/2025	25/02/2025 - 13/03/2025
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std
Soil Description :	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY
MDR Test Results						
PCWD (t/m3) :	2.06	2.00	2.05	2.03	2.03	2.01
Moisture Variation :	2.0%	2.0%	0.0%	0.0%	0.0%	0.0%
ADJ PCWD (t/m3) :	2.04	2.04	-	-	-	-
ADJ Moisture Variation :	2.0%	2.0%	-	-	-	-
Moisture Test Results :						
Field Moisture Content :	10.5%	8.0%	15.5%	14.0%	15.0%	14.5%
Moisture Specification :	-	-	-	-	-	-
Variation from OMC :	**2.0% Dry of OMC**	**2.0% Dry of OMC**	**0.0% Dry of OMC**	**0.0% Wet of OMC**	**At OMC**	**0.0% Wet of OMC**
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A
Density Test Results						
Field Wet Density (t/m3) :	2.04	2.05	2.04	2.05	2.03	2.04
Density Specification :	100%	100%	100%	100%	100%	100%
Wet Density Ratio :	**100.5%**	**100.0%**	**100.0%**	**101.0%**	**100.0%**	**101.5%**

Remarks :	

NATA
WORLD RECOGNISED ACCREDITATION

Note: The results contained in this report relate only to the item/s that were tested/sampled

Accredited for Compliance with ISO/ IEC 17025 - Testing
Protest Engineering (Darra) Accreditation Number - 2851
Base Laboratory Site Number - 2844 - Darra

Base Laboratory Address - 1-2/35 Limestone Street, Darra, 4076, QLD

APPROVED SIGNATORY

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PROTEST
CONSTRUCTION MATERIALS TESTING

Soil Compaction and Density Tests Report - Compaction Control

Client :	**Shadforths**	Report Number :	**SR/PTP/14690 - 22/1**
Client Address :	**99 Sandalwood Lane, Forest Glen, 4556, QLD**	Report Date :	**13/03/2025**
Project Name :	**Woodlinks Village - Stage 25**	Test Request :	-
Project Number :	**PTP/14690**	**Page 2 of 2**	
Location :	**Collingwood Park**		

Test Methods :	**AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1**

Sample Number :	S/288922	S/288923	S/288924	S/288925		
Date/s Tested :	25/02/2025 - 13/03/2025	25/02/2025 - 13/03/2025	25/02/2025 - 13/03/2025	25/02/2025 - 13/03/2025		
Material Source :	Onsite	Onsite	Onsite	Onsite		
For use as :	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill		
Test / Layer Depths :	150 / 175	150 / 175	150 / 175	150 / 175		
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b		
Time :	09:25	09:27	09:29	09:31		
Lot Number :	-	-	-	-		
Location 1 :	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing		
Location 2 :	J3/2 - E/6	J3/2 - E/6	J3/2 - E/6	J3/2 - E/6		
Location 3 :	5m From E/6	9m From E/6	10m From E/6	12m From E/6		
Location 4 :	0.9m Below Finish Level	0.6m Below Finish Level	0.3m Below Finish Level	Finish Level		
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm		
Oversize Wet :	0%	0%	0%	0%		
Oversize Density - Dry (t/m³) :	-	-	-	-		
Assigned MDR (Yes/No) :	No	No	No	No		
MDR Sample Number :	S/288922	S/288923	S/288924	S/288925		
MDR Test Date(s) :	25/02/2025 - 13/03/2025	25/02/2025 - 13/03/2025	25/02/2025 - 13/03/2025	25/02/2025 - 13/03/2025		
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std		
Soil Description :	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY		
MDR Test Results						
PCWD (t/m3) :	2.04	2.03	2.03	2.04		
Moisture Variation :	-0.5%	0.0%	0.0%	-0.5%		
ADJ PCWD (t/m3) :	-	-	-	-		
ADJ Moisture Variation :	-	-	-	-		
Moisture Test Results :						
Field Moisture Content :	14.5%	15.5%	14.5%	16.0%		
Moisture Specification :	-	-	-	-		
Variation from OMC :	**0.5% Wet of OMC**	**0.0% Wet of OMC**	**0.0% Wet of OMC**	**0.5% Wet of OMC**		
Moisture Ratio :	N/A	N/A	N/A	N/A		
Density Test Results						
Field Wet Density (t/m3) :	2.04	2.04	2.05	2.04		
Density Specification :	100%	100%	100%	100%		
Wet Density Ratio :	**100.0%**	**100.5%**	**100.5%**	**100.0%**		

Remarks :	

NATA
WORLD RECOGNISED ACCREDITATION

Note: The results contained in this report relate only to the item/s that were tested/sampled

Accredited for Compliance with ISO/ IEC 17025 - Testing
Protest Engineering (Darra) Accreditation Number - 2851
Base Laboratory Site Number - 2844 - Darra

Base Laboratory Address - 1-2/35 Limestone Street, Darra, 4076, QLD

APPROVED SIGNATORY

Timothy Watson - Signatory

Protest CMT
ABN: 26602913673
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Soil Compaction and Density Tests Report - Compaction Control

Client :	**Shadforths**	Report Number :	**SR/PTP/14690 - 23/1**
Client Address :	**99 Sandalwood Lane, Forest Glen, 4556, QLD**	Report Date :	**19/03/2025**
Project Name :	**Woodlinks Village - Stage 25**	Test Request :	-
Project Number :	**PTP/14690**	**Page 1 of 2**	
Location :	**Collingwood Park**		
Test Methods :	**AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1**		

Sample Number :	S/290129	S/290130	S/290131	S/290132	S/290133	S/290134
Date/s Tested :	04/03/2025 - 19/03/2025	04/03/2025 - 19/03/2025	04/03/2025 - 19/03/2025	04/03/2025 - 19/03/2025	04/03/2025 - 19/03/2025	04/03/2025 - 19/03/2025
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
For use as :	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill
Test / Layer Depths :	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175
Sampling Method :	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted
Time :	09:01	09:03	09:05	09:07	09:11	09:20
Lot Number :	-	-	-	-	-	-
Location 1 :	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing
Location 2 :	EX9/1 - 1/2	EX9/1 - 1/2	EX9/1 - 1/2	EX9/1 - 1/2	EX9/1 - 1/2	3/2 - 4/2
Location 3 :	11m From 1/2	9m From 1/2	6m From 1/2	4m From 1/2	2m From 1/2	12m From 4/2
Location 4 :	1.2m Below Finish Level	0.9m Below Finish Level	0.6m Below Finish Level	0.3m Below Finish Level	Finish Level	1.2m Below Finish Level
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	7%	0%	0%	0%	0%	0%
Oversize Density - Dry (t/m³) :	1.85	-	-	-	-	-
Assigned MDR (Yes/No) :	No	No	No	No	No	No
MDR Sample Number :	S/290129	S/290130	S/290131	S/290132	S/290133	S/290134
MDR Test Date(s) :	04/03/2025 - 19/03/2025	04/03/2025 - 19/03/2025	04/03/2025 - 19/03/2025	04/03/2025 - 19/03/2025	04/03/2025 - 19/03/2025	04/03/2025 - 19/03/2025
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std
Soil Description :	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY
MDR Test Results						
PCWD (t/m3) :	2.12	2.18	2.16	2.16	2.19	2.18
Moisture Variation :	2.0%	1.5%	2.0%	2.5%	1.5%	2.0%
ADJ PCWD (t/m3) :	2.10	-	-	-	-	-
ADJ Moisture Variation :	2.0%	-	-	-	-	-
Moisture Test Results :						
Field Moisture Content :	8.0%	8.5%	10.0%	8.5%	10.0%	10.5%
Moisture Specification :	-	-	-	-	-	-
Variation from OMC :	**2.0% Dry of OMC**	**1.5% Dry of OMC**	**2.0% Dry of OMC**	**2.5% Dry of OMC**	**1.5% Dry of OMC**	**2.0% Dry of OMC**
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A
Density Test Results						
Field Wet Density (t/m3) :	2.19	2.19	2.19	2.20	2.20	2.20
Density Specification :	100%	100%	100%	100%	100%	100%
Wet Density Ratio :	**104.0%**	**101.0%**	**101.5%**	**102.0%**	**100.5%**	**100.5%**

Remarks :	

Note: The results contained in this report relate only to the item/s that were tested/sampled

Accredited for Compliance with ISO/ IEC 17025 - Testing
Protest Engineering (Darra) Accreditation Number - 2851
Base Laboratory Site Number - 2844 - Darra

Base Laboratory Address - 1-2/35 Limestone Street, Darra, 4076, QLD

APPROVED SIGNATORY

Timothy Watson - Signatory

Protest CMT
ABN: 26602913673
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PROTEST
CONSTRUCTION MATERIALS TESTING

Soil Compaction and Density Tests Report - Compaction Control

Client :	**Shadforths**	Report Number :	**SR/PTP/14690 - 23/1**
Client Address :	**99 Sandalwood Lane, Forest Glen, 4556, QLD**	Report Date :	**19/03/2025**
Project Name :	**Woodlinks Village - Stage 25**	Test Request :	-
Project Number :	**PTP/14690**	**Page 2 of 2**	
Location :	**Collingwood Park**		

Test Methods :	**AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1**

Sample Number :	S/290135	S/290136	S/290137	S/290138		
Date/s Tested :	04/03/2025 - 19/03/2025	04/03/2025 - 19/03/2025	04/03/2025 - 19/03/2025	04/03/2025 - 19/03/2025		
Material Source :	Onsite	Onsite	Onsite	Onsite		
For use as :	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill		
Test / Layer Depths :	150 / 175	150 / 175	150 / 175	150 / 175		
Sampling Method :	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted		
Time :	09:22	09:24	09:26	09:29		
Lot Number :	-	-	-	-		
Location 1 :	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing		
Location 2 :	3/2 - 4/2	3/2 - 4/2	3/2 - 4/2	3/2 - 4/2		
Location 3 :	9m From 4/2	5m From 4/2	4m From 4/2	2m From 4/2		
Location 4 :	0.9m Below Finish Level	0.6m Below Finish Level	0.3m Below Finish Level	Finish Level		
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm		
Oversize Wet :	8%	0%	4%	4%		
Oversize Density - Dry (t/m³) :	2.38	-	2.35	2.39		
Assigned MDR (Yes/No) :	No	No	No	No		
MDR Sample Number :	S/290135	S/290136	S/290137	S/290138		
MDR Test Date(s) :	04/03/2025 - 19/03/2025	04/03/2025 - 19/03/2025	04/03/2025 - 19/03/2025	04/03/2025 - 19/03/2025		
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std		
Soil Description :	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY		
MDR Test Results						
PCWD (t/m3) :	2.13	2.16	2.15	2.17		
Moisture Variation :	2.5%	2.0%	2.5%	2.5%		
ADJ PCWD (t/m3) :	2.15	-	2.15	2.18		
ADJ Moisture Variation :	2.5%	-	2.5%	2.5%		
Moisture Test Results :						
Field Moisture Content :	9.0%	9.0%	10.0%	9.5%		
Moisture Specification :	-	-	-	-		
Variation from OMC :	**2.5% Dry of OMC**	**2.0% Dry of OMC**	**2.5% Dry of OMC**	**2.5% Dry of OMC**		
Moisture Ratio :	N/A	N/A	N/A	N/A		
Density Test Results						
Field Wet Density (t/m3) :	2.20	2.20	2.20	2.19		
Density Specification :	100%	100%	100%	100%		
Wet Density Ratio :	**102.5%**	**102.0%**	**102.0%**	**100.5%**		

Remarks :	

NATA
WORLD RECOGNISED ACCREDITATION

Note: The results contained in this report relate only to the item/s that were tested/sampled

Accredited for Compliance with ISO/ IEC 17025 - Testing
Protest Engineering (Darra) Accreditation Number - 2851
Base Laboratory Site Number - 2844 - Darra

Base Laboratory Address - 1-2/35 Limestone Street, Darra, 4076, QLD

APPROVED SIGNATORY

Timothy Watson - Signatory

Protest CMT
ABN: 26602913673
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PROTEST CONSTRUCTION MATERIALS TESTING

Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforths	Report Number :	SR/PTP/14690 - 24/1
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD	Report Date :	19/03/2025
Project Name :	Woodlinks Village - Stage 25	Test Request :	-
Project Number :	PTP/14690		Page 1 of 3
Location :	Collingwood Park		
Test Methods :	AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1		

Sample Number :	S/290342	S/290343	S/290344	S/290345	S/290346	S/290347
Date/s Tested :	03/05/2025 - 19/03/2025	03/05/2025 - 19/03/2025	03/05/2025 - 19/03/2025	03/05/2025 - 19/03/2025	03/05/2025 - 19/03/2025	03/05/2025 - 19/03/2025
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
For use as :	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill
Test / Layer Depths :	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175
Sampling Method :	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted
Time :	09:03	09:04	09:07	09:08	09:11	09:13
Lot Number :	-	-	-	-	-	-
Location 1 :	Sewer Manhole	Sewer Manhole	Sewer Manhole	Sewer Manhole	Sewer Manhole	Sewer Manhole
Location 2 :	MH 1/10	MH 1/10	MH 2/10	MH 2/10	MH 3/10	MH 3/10
Location 3 :	0.2m From 1/10	0.3m From 1/10	0.2m From 2/10	0.2m From 2/10	0.3m From 3/10	0.2m From 3/10
Location 4 :	0.9m Below Finish Level	Finish Level	0.9m Below Finish Level	Finish Level	0.9m Below Finish Level	Finish Level
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	0%	4%	3%	2%	0%	4%
Oversize Density - Dry (t/m³) :	-	2.47	2.40	2.38	-	2.40
Assigned MDR (Yes/No) :	No	No	No	No	No	No
MDR Sample Number :	S/290342	S/290343	S/290344	S/290345	S/290346	S/290347
MDR Test Date(s) :	03/05/2025 - 19/03/2025	03/05/2025 - 19/03/2025	03/05/2025 - 19/03/2025	03/05/2025 - 19/03/2025	03/05/2025 - 19/03/2025	03/05/2025 - 19/03/2025
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std
Soil Description :	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY
MDR Test Results						
PCWD (t/m3) :	2.06	2.08	2.09	2.02	2.00	2.05
Moisture Variation :	2.5%	2.5%	2.5%	3.0%	3.0%	2.5%
ADJ PCWD (t/m3) :	-	2.09	2.10	2.03	-	2.07
ADJ Moisture Variation :	-	2.5%	2.5%	2.5%	-	2.5%
Moisture Test Results :						
Field Moisture Content :	11.5%	11.0%	11.0%	10.5%	12.0%	11.5%
Moisture Specification :	-	-	-	-	-	-
Variation from OMC :	**2.5% Dry of OMC**	**2.5% Dry of OMC**	**2.5% Dry of OMC**	**2.5% Dry of OMC**	**3.0% Dry of OMC**	**2.5% Dry of OMC**
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A
Density Test Results						
Field Wet Density (t/m3) :	2.00	2.01	2.01	2.00	1.99	2.01
Density Specification :	95%	95%	95%	95%	95%	95%
Wet Density Ratio :	**97.5%**	**96.0%**	**96.0%**	**98.5%**	**100.0%**	**97.5%**

Remarks :	

NATA WORLD RECOGNISED ACCREDITATION

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Accredited for Compliance with ISO/ IEC 17025 - Testing
Protest Engineering (Darra) Accreditation Number - 2851
Base Laboratory Site Number - 2844 - Darra

Base Laboratory Address - 1-2/35 Limestone Street, Darra, 4076, QLD

APPROVED SIGNATORY

Timothy Watson - Signatory

Protest CMT
ABN: 26602913673
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Soil Compaction and Density Tests Report - Compaction Control

Client :	**Shadforths**	Report Number :	**SR/PTP/14690 - 24/1**
Client Address :	**99 Sandalwood Lane, Forest Glen, 4556, QLD**	Report Date :	**19/03/2025**
Project Name :	**Woodlinks Village - Stage 25**	Test Request :	-
Project Number :	**PTP/14690**		**Page 2 of 3**
Location :	**Collingwood Park**		
Test Methods :	**AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1**		

Sample Number :	S/290348	S/290349	S/290350	S/290351	S/290352	S/290353
Date/s Tested :	05/03/2025 - 19/03/2025	05/03/2025 - 19/03/2025	05/03/2025 - 19/03/2025	05/03/2025 - 19/03/2025	05/03/2025 - 19/03/2025	05/03/2025 - 19/03/2025
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
For use as :	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill
Test / Layer Depths :	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175
Sampling Method :	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted
Time :	09:16	09:20	09:23	09:27	09:31	09:33
Lot Number :	-	-	-	-	-	-
Location 1 :	Sewer Manhole	Sewer Manhole	Sewer Manhole	Sewer Manhole	Sewer Manhole	Sewer Manhole
Location 2 :	MH 1/2	MH 1/2	MH 2/2	MH 2/2	MH 5/2	MH 5/2
Location 3 :	0.2m From 1/2	0.3m From 1/2	0.2m From 2/2	0.3m From 2/2	0.3m From 5/2	0.2m From 5/2
Location 4 :	0.9m Below Finish Level	Finish Level	0.9m Below Finish Level	Finish Level	0.9m Below Finish Level	Finish Level
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	0%	0%	0%	3%	0%	4%
Oversize Density - Dry (t/m³) :	-	-	-	2.29	-	2.40
Assigned MDR (Yes/No) :	No	No	No	No	No	No
MDR Sample Number :	S/290348	S/290349	S/290350	S/290351	S/290352	S/290353
MDR Test Date(s) :	05/03/2025 - 19/03/2025	05/03/2025 - 19/03/2025	05/03/2025 - 19/03/2025	05/03/2025 - 19/03/2025	05/03/2025 - 19/03/2025	05/03/2025 - 19/03/2025
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std
Soil Description :	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY
MDR Test Results						
PCWD (t/m3) :	2.01	2.01	2.00	1.99	2.01	1.97
Moisture Variation :	2.5%	2.5%	2.5%	3.0%	2.5%	2.5%
ADJ PCWD (t/m3) :	-	-	-	1.99	-	1.98
ADJ Moisture Variation :	-	-	-	3.0%	-	2.5%
Moisture Test Results :						
Field Moisture Content :	13.0%	11.5%	9.0%	12.0%	11.0%	11.0%
Moisture Specification :	-	-	-	-	-	-
Variation from OMC :	**2.5% Dry of OMC**	**2.5% Dry of OMC**	**2.5% Dry of OMC**	**3.0% Dry of OMC**	**2.5% Dry of OMC**	**2.5% Dry of OMC**
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A
Density Test Results						
Field Wet Density (t/m3) :	2.01	2.01	2.00	2.00	2.01	2.01
Density Specification :	95%	95%	95%	95%	95%	95%
Wet Density Ratio :	**100.0%**	**100.0%**	**100.0%**	**100.5%**	**100.0%**	**101.5%**
Remarks :						

Note: The results contained in this report relate only to the item/s that were tested/sampled

Accredited for Compliance with ISO/ IEC 17025 - Testing
Protest Engineering (Darra) Accreditation Number - 2851
Base Laboratory Site Number - 2844 - Darra

Base Laboratory Address - 1-2/35 Limestone Street, Darra, 4076, QLD

APPROVED SIGNATORY

Timothy Watson - Signatory

Protest CMT
ABN: 26602913673
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Soil Compaction and Density Tests Report - Compaction Control

Client :	**Shadforths**	Report Number :	**SR/PTP/14690 - 24/1**
Client Address :	**99 Sandalwood Lane, Forest Glen, 4556, QLD**	Report Date :	**19/03/2025**
Project Name :	**Woodlinks Village - Stage 25**	Test Request :	**-**
Project Number :	**PTP/14690**		**Page 3 of 3**
Location :	**Collingwood Park**		

Test Methods :	**AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1**

Sample Number :	S/290354	S/290355	S/290356	S/290357	S/290358	S/290359
Date/s Tested :	03/05/2025 - 19/03/2025	03/05/2025 - 19/03/2025	03/05/2025 - 19/03/2025	03/05/2025 - 19/03/2025	03/05/2025 - 19/03/2025	03/05/2025 - 19/03/2025
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
For use as :	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill
Test / Layer Depths :	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175
Sampling Method :	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted
Time :	09:37	09:40	09:43	09:46	09:49	09:52
Lot Number :	-	-	-	-	-	-
Location 1 :	Sewer Manhole	Sewer Manhole	Sewer Manhole	Sewer Manhole	Sewer Manhole	Sewer Manhole
Location 2 :	MH 6/2	MH 6/2	MH 7/2	MH 7/2	MH 3/2	MH 3/2
Location 3 :	0.3m From 6/2	0.2m From 6/2	0.3m From 7/2	0.2m From 7/2	0.3m From 3/2	0.2m From 3/2
Location 4 :	0.9m Below Finish Level	Finish Level	0.9m Below Finish Level	Finish Level	0.9m Below Finish Level	Finish Level
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	0%	0%	6%	3%	0%	3%
Oversize Density - Dry (t/m³) :	-	-	2.37	2.32	-	2.47
Assigned MDR (Yes/No) :	No	No	No	No	No	No
MDR Sample Number :	S/290354	S/290355	S/290356	S/290357	S/290358	S/290359
MDR Test Date(s) :	03/05/2025 - 19/03/2025	03/05/2025 - 19/03/2025	03/05/2025 - 19/03/2025	03/05/2025 - 19/03/2025	03/05/2025 - 19/03/2025	03/05/2025 - 19/03/2025
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std
Soil Description :	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY
MDR Test Results						
PCWD (t/m3) :	2.10	2.07	2.03	2.03	2.03	1.99
Moisture Variation :	2.0%	2.5%	3.0%	2.5%	2.5%	2.5%
ADJ PCWD (t/m3) :	-	-	2.04	2.03	-	2.00
ADJ Moisture Variation :	-	-	3.0%	2.5%	-	2.0%
Moisture Test Results :						
Field Moisture Content :	10.5%	12.0%	11.5%	10.0%	10.5%	12.0%
Moisture Specification :	-	-	-	-	-	-
Variation from OMC :	**2.0% Dry of OMC**	**2.5% Dry of OMC**	**3.0% Dry of OMC**	**2.5% Dry of OMC**	**2.5% Dry of OMC**	**2.0% Dry of OMC**
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A
Density Test Results						
Field Wet Density (t/m3) :	2.00	2.00	1.99	1.99	1.99	1.99
Density Specification :	95%	95%	95%	95%	95%	95%
Wet Density Ratio :	**95.0%**	**96.5%**	**97.5%**	**98.0%**	**98.0%**	**99.5%**

Remarks :	

Note: The results contained in this report relate only to the item/s that were tested/sampled

Accredited for Compliance with ISO/ IEC 17025 - Testing
Protest Engineering (Darra) Accreditation Number - 2851
Base Laboratory Site Number - 2844 - Darra

Base Laboratory Address - 1-2/35 Limestone Street, Darra, 4076, QLD

APPROVED SIGNATORY

Timothy Watson - Signatory

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ABN: 26602913673
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PROTEST CONSTRUCTION MATERIALS TESTING

Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforths	Report Number :	SR/PTP/14690 - 26/1
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD	Report Date :	21/03/2025
Project Name :	Woodlinks Village - Stage 25	Test Request :	-
Project Number :	PTP/14690		Page 1 of 6
Location :	Collingwood Park		
Test Methods :	AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1		

Sample Number :	S/290295	S/290297	S/290298	S/290299	S/290300	S/290301
Date/s Tested :	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
For use as :	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill
Test / Layer Depths :	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175
Sampling Method :	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted
Time :	07:21	07:23	07:25	07:29	07:31	07:40
Lot Number :	-	-	-	-	-	-
Location 1 :	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing
Location 2 :	J1/2 - E/33	J1/2 - E/33	J1/2 - E/33	J1/2 - E/33	J1/2 - E/33	J2/2 - E/28
Location 3 :	2m From J1/2	4m From J1/2	6m From J1/2	9m From J1/2	10m From J1/2	3m From J2/2
Location 4 :	1.2m Below Finish Level	0.9m Below Finish Level	0.6m Below Finish Level	0.3m Below Finish Level	Finish Level	1.2m Below Finish Level
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	0%	4%	4%	3%	3%	4%
Oversize Density - Dry (t/m³) :	-	2.40	2.37	2.31	2.42	2.37
Assigned MDR (Yes/No) :	No	No	No	No	No	No
MDR Sample Number :	S/290295	S/290297	S/290298	S/290299	S/290300	S/290301
MDR Test Date(s) :	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std
Soil Description :	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY
MDR Test Results						
PCWD (t/m3) :	1.97	1.97	1.97	1.99	1.99	1.96
Moisture Variation :	2.0%	2.5%	2.5%	2.5%	2.5%	2.5%
ADJ PCWD (t/m3) :	-	1.99	1.99	2.00	2.00	1.97
ADJ Moisture Variation :	-	2.5%	2.5%	2.5%	2.0%	2.5%
Moisture Test Results :						
Field Moisture Content :	10.5%	9.5%	9.5%	11.0%	9.5%	9.5%
Moisture Specification :	-	-	-	-	-	-
Variation from OMC :	**2.0% Dry of OMC**	**2.5% Dry of OMC**	**2.5% Dry of OMC**	**2.5% Dry of OMC**	**2.0% Dry of OMC**	**2.5% Dry of OMC**
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A
Density Test Results						
Field Wet Density (t/m3) :	1.97	2.01	2.02	2.02	2.01	1.98
Density Specification :	100%	100%	100%	100%	100%	100%
Wet Density Ratio :	**100.5%**	**101.5%**	**101.5%**	**100.5%**	**100.5%**	**100.5%**
Remarks :						

Note: The results contained in this report relate only to the item/s that were tested/sampled

Accredited for Compliance with ISO/ IEC 17025 - Testing
Protest Engineering (Darra) Accreditation Number - 2851
Base Laboratory Site Number - 2844 - Darra

Base Laboratory Address - 1-2/35 Limestone Street, Darra, 4076, QLD

NATA WORLD RECOGNISED ACCREDITATION

APPROVED SIGNATORY

Timothy Watson - Signatory

Protest CMT
ABN: 26602913673
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PROTEST CONSTRUCTION MATERIALS TESTING

Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforths	Report Number :	SR/PTP/14690 - 26/1
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD	Report Date :	21/03/2025
Project Name :	Woodlinks Village - Stage 25	Test Request :	-
Project Number :	PTP/14690	Page 2 of 6	
Location :	Collingwood Park		
Test Methods :	AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1		

Sample Number :	S/290302	S/290303	S/290304	S/290305	S/290306	S/290307
Date/s Tested :	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
For use as :	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill
Test / Layer Depths :	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175
Sampling Method :	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted
Time :	07:43	07:45	07:48	07:50	07:55	07:57
Lot Number :	-	-	-	-	-	-
Location 1 :	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing
Location 2 :	J2/2 - E/28	J2/2 - E/28	J2/2 - E/28	J2/2 - E/28	2/4 - E/4	2/4 - E/4
Location 3 :	4m From J2/2	5m From J2/2	8m From J2/2	10m From J2/2	7m From 2/4	9m From 2/4
Location 4 :	0.9m Below Finish Level	0.6m Below Finish Level	0.3m Below Finish Level	Finish Level	1.2m Below Finish Level	0.9m Below Finish Level
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	0%	0%	0%	4%	5%	3%
Oversize Density - Dry (t/m^3) :	-	-	-	2.41	2.23	2.35
Assigned MDR (Yes/No) :	No	No	No	No	No	No
MDR Sample Number :	S/290302	S/290303	S/290304	S/290305	S/290306	S/290307
MDR Test Date(s) :	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std
Soil Description :	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY
MDR Test Results						
PCWD (t/m3) :	1.96	1.98	1.98	1.98	1.94	1.89
Moisture Variation :	2.5%	2.5%	2.5%	2.0%	2.5%	2.5%
ADJ PCWD (t/m3) :	-	-	-	1.99	1.95	1.90
ADJ Moisture Variation :	-	-	-	2.0%	2.5%	2.5%
Moisture Test Results :						
Field Moisture Content :	12.5%	11.5%	11.5%	11.5%	11.0%	10.0%
Moisture Specification :	-	-	-	-	-	-
Variation from OMC :	**2.5% Dry of OMC**	**2.5% Dry of OMC**	**2.5% Dry of OMC**	**2.0% Dry of OMC**	**2.5% Dry of OMC**	**2.5% Dry of OMC**
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A
Density Test Results						
Field Wet Density (t/m3) :	1.98	1.98	1.99	1.99	1.97	1.97
Density Specification :	100%	100%	100%	100%	100%	100%
Wet Density Ratio :	**101.0%**	**100.0%**	**100.5%**	**100.0%**	**101.0%**	**103.5%**
Remarks :						

Note: The results contained in this report relate only to the item/s that were tested/sampled

Accredited for Compliance with ISO/ IEC 17025 - Testing
Protest Engineering (Darra) Accreditation Number - 2851
Base Laboratory Site Number - 2844 - Darra

Base Laboratory Address - 1-2/35 Limestone Street, Darra, 4076, QLD

NATA WORLD RECOGNISED ACCREDITATION

APPROVED SIGNATORY

Timothy Watson - Signatory

Protest CMT
ABN: 26602913673
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PROTEST CONSTRUCTION MATERIALS TESTING

Soil Compaction and Density Tests Report - Compaction Control

Client :	**Shadforths**	Report Number :	**SR/PTP/14690 - 26/1**
Client Address :	**99 Sandalwood Lane, Forest Glen, 4556, QLD**	Report Date :	**21/03/2025**
Project Name :	**Woodlinks Village - Stage 25**	Test Request :	**-**
Project Number :	**PTP/14690**		**Page 3 of 6**
Location :	**Collingwood Park**		
Test Methods :	**AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1**		

Sample Number :	S/290308	S/290309	S/290310	S/290384	S/290385	S/290386
Date/s Tested :	03/05/2025 - 21/03/2025	03/05/2025 - 21/03/2025	03/05/2025 - 21/03/2025	03/05/2025 - 21/03/2025	03/05/2025 - 21/03/2025	03/05/2025 - 21/03/2025
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
For use as :	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill
Test / Layer Depths :	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175
Sampling Method :	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted
Time :	07:59	08:03	08:05	10:10	10:12	10:13
Lot Number :	-	-	-	-	-	-
Location 1 :	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing
Location 2 :	2/4 - E/4	2/4 - E/4	2/4 - E/4	EX12/1 - 1A/10	EX12/1 - 1A/10	EX12/1 - 1A/10
Location 3 :	11m From 2/4	12m From 2/4	2m From 2/4	3m From EX12/1	5m From EX12/1	7m From EX12/1
Location 4 :	0.6m Below Finish Level	0.3m Below Finish Level	Finish Level	1.2m Below Finish Level	0.9m Below Finish Level	0.6m Below Finish Level
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	4%	0%	3%	6%	6%	3%
Oversize Density - Dry (t/m³) :	2.42	-	2.35	2.40	1.82	2.34
Assigned MDR (Yes/No) :	No	No	No	No	No	No
MDR Sample Number :	S/290308	S/290309	S/290310	S/290384	S/290385	S/290386
MDR Test Date(s) :	03/05/2025 - 21/03/2025	03/05/2025 - 21/03/2025	03/05/2025 - 21/03/2025	03/05/2025 - 21/03/2025	03/05/2025 - 21/03/2025	03/05/2025 - 21/03/2025
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std
Soil Description :	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY
MDR Test Results						
PCWD (t/m3) :	1.93	1.96	1.95	2.12	2.12	2.14
Moisture Variation :	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
ADJ PCWD (t/m3) :	1.94	-	1.96	2.13	2.10	2.14
ADJ Moisture Variation :	-	-	0.0%	-	-	-
Moisture Test Results :						
Field Moisture Content :	11.0%	11.0%	11.5%	10.5%	11.5%	11.5%
Moisture Specification :	-	-	-	-	-	-
Variation from OMC :	**At OMC**	**0.0% Dry of OMC**	**0.0% Dry of OMC**	**At OMC**	**At OMC**	**At OMC**
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A
Density Test Results						
Field Wet Density (t/m3) :	1.96	1.97	1.98	2.13	2.13	2.14
Density Specification :	100%	100%	100%	100%	100%	100%
Wet Density Ratio :	**101.0%**	**100.5%**	**100.5%**	**100.0%**	**101.5%**	**100.0%**
Remarks :						

NATA WORLD RECOGNISED ACCREDITATION

Note: The results contained in this report relate only to the item/s that were tested/sampled

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Base Laboratory Address - 1-2/35 Limestone Street, Darra, 4076, QLD

APPROVED SIGNATORY

Timothy Watson - Signatory

Protest CMT
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PROTEST CONSTRUCTION MATERIALS TESTING

Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforths	Report Number :	SR/PTP/14690 - 26/1
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD	Report Date :	21/03/2025
Project Name :	Woodlinks Village - Stage 25	Test Request :	-
Project Number :	PTP/14690	Page 4 of 6	
Location :	Collingwood Park		

Test Methods :	AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1

Sample Number :	S/290387	S/290388	S/290389	S/290390	S/290391	S/290392
Date/s Tested :	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
For use as :	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill
Test / Layer Depths :	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175
Sampling Method :	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted
Time :	10:15	10:16	10:18	10:20	10:22	10:24
Lot Number :	-	-	-	-	-	-
Location 1 :	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing
Location 2 :	EX12/1 - 1A/10	EX12/1 - 1A/10	E/29 - J1/10	E/29 - J1/10	2/4 - E/4	J1/2 - E/33
Location 3 :	10m From EX12/1	12m From EX12/1	3m From E/29	4m From E/29	2m From 2/4	3m From J1/2
Location 4 :	0.3m Below Finish Level	Finish Level	0.9m Below Finish Level	1.2m Below Finish Level	1.5m Below Finish Level	1.5m Below Finish Level
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	7%	2%	0%	3%	0%	0%
Oversize Density - Dry (t/m³) :	2.37	2.35	-	2.36	-	-
Assigned MDR (Yes/No) :	No	No	No	No	No	No
MDR Sample Number :	S/290387	S/290388	S/290389	S/290390	S/290391	S/290392
MDR Test Date(s) :	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std
Soil Description :	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY
MDR Test Results						
PCWD (t/m3) :	2.10	2.11	2.13	2.10	1.92	2.06
Moisture Variation :	2.0%	2.0%	2.0%	2.0%	2.5%	2.0%
ADJ PCWD (t/m3) :	2.11	2.12	-	2.10	-	-
ADJ Moisture Variation :	2.0%	2.0%	-	2.0%	-	-
Moisture Test Results :						
Field Moisture Content :	9.5%	10.5%	13.5%	11.0%	11.0%	11.0%
Moisture Specification :	-	-	-	-	-	-
Variation from OMC :	**2.0% Dry of OMC**	**2.0% Dry of OMC**	**2.0% Dry of OMC**	**2.0% Dry of OMC**	**2.5% Dry of OMC**	**2.0% Dry of OMC**
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A
Density Test Results						
Field Wet Density (t/m3) :	2.13	2.13	2.14	2.13	1.93	2.13
Density Specification :	100%	100%	100%	100%	100%	100%
Wet Density Ratio :	**101.0%**	**100.5%**	**100.5%**	**101.5%**	**100.5%**	**103.5%**

Remarks :	

NATA WORLD RECOGNISED ACCREDITATION

Note: The results contained in this report relate only to the item/s that were tested/sampled

Accredited for Compliance with ISO/ IEC 17025 - Testing
Protest Engineering (Darra) Accreditation Number - 2851
Base Laboratory Site Number - 2844 - Darra

Base Laboratory Address - 1-2/35 Limestone Street, Darra, 4076, QLD

APPROVED SIGNATORY

Timothy Watson - Signatory

Protest CMT
ABN: 26602913673
www.protestcmt.com.au

PROTEST CONSTRUCTION MATERIALS TESTING

Soil Compaction and Density Tests Report - Compaction Control

Client :	**Shadforths**	Report Number :	**SR/PTP/14690 - 26/1**
Client Address :	**99 Sandalwood Lane, Forest Glen, 4556, QLD**	Report Date :	**21/03/2025**
Project Name :	**Woodlinks Village - Stage 25**	Test Request :	-
Project Number :	**PTP/14690**		**Page 5 of 6**
Location :	**Collingwood Park**		

Test Methods :	**AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1**

Sample Number :	S/290393	S/290394	S/290395	S/290396	S/290397	S/290398
Date/s Tested :	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
For use as :	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill
Test / Layer Depths :	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175
Sampling Method :	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted
Time :	10:26	10:28	10:31	10:34	10:37	10:41
Lot Number :	-	-	-	-	-	-
Location 1 :	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing	Sewer Road Crossing
Location 2 :	J2/10 - E/11	J2/10 - E/11	EX10/1 - E/8	EX10/1 - E/8	EX10/1 - E/8	EX10/1 - E/8
Location 3 :	8m From E/11	5m From E/11	2m From EX10/1	3m From EX10/1	5m From EX10/1	6m From EX10/1
Location 4 :	0.9m Below Finish Level	1.2m Below Finish Level	1.5m Below Finish Level	1.2m Below Finish Level	0.9m Below Finish Level	0.6m Below Finish Level
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	0%	4%	5%	0%	0%	2%
Oversize Density - Dry (t/m³) :	-	2.37	2.38	-	-	2.31
Assigned MDR (Yes/No) :	No	No	No	No	No	No
MDR Sample Number :	S/290393	S/290394	S/290395	S/290396	S/290397	S/290398
MDR Test Date(s) :	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std
Soil Description :	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY
MDR Test Results						
PCWD (t/m3) :	2.13	2.12	2.08	2.11	2.12	2.12
Moisture Variation :	3.0%	2.0%	2.0%	2.0%	2.0%	2.0%
ADJ PCWD (t/m3) :	-	2.13	2.09	-	-	2.13
ADJ Moisture Variation :	-	2.0%	2.0%	-	-	1.5%
Moisture Test Results :						
Field Moisture Content :	11.5%	11.5%	11.0%	10.0%	11.0%	10.5%
Moisture Specification :	-	-	-	-	-	-
Variation from OMC :	**3.0% Dry of OMC**	**2.0% Dry of OMC**	**2.0% Dry of OMC**	**2.0% Dry of OMC**	**2.0% Dry of OMC**	**1.5% Dry of OMC**
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A
Density Test Results						
Field Wet Density (t/m3) :	2.14	2.13	2.13	2.13	2.14	2.14
Density Specification :	100%	100%	100%	100%	100%	100%
Wet Density Ratio :	**100.5%**	**100.0%**	**101.5%**	**100.5%**	**100.5%**	**100.5%**

Remarks :	

NATA WORLD RECOGNISED ACCREDITATION

Note: The results contained in this report relate only to the item/s that were tested/sampled

Accredited for Compliance with ISO/ IEC 17025 - Testing
Protest Engineering (Darra) Accreditation Number - 2851
Base Laboratory Site Number - 2844 - Darra

Base Laboratory Address - 1-2/35 Limestone Street, Darra, 4076, QLD

APPROVED SIGNATORY

Timothy Watson - Signatory

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PROTEST
CONSTRUCTION MATERIALS TESTING

Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforths	Report Number :	SR/PTP/14690 - 26/1
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD	Report Date :	21/03/2025
Project Name :	Woodlinks Village - Stage 25	Test Request :	-
Project Number :	PTP/14690	Page 6 of 6	
Location :	Collingwood Park		

Test Methods :	AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1

Sample Number :	S/290399	S/290400				
Date/s Tested :	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025				
Material Source :	Onsite	Onsite				
For use as :	Trench Backfill	Trench Backfill				
Test / Layer Depths :	150 / 175	150 / 175				
Sampling Method :	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted				
Time :	10:45	10:49				
Lot Number :	-	-				
Location 1 :	Sewer Road Crossing	Sewer Road Crossing				
Location 2 :	EX10/1 - E/8	EX10/1 - E/8				
Location 3 :	8m From EX10/1	10m From EX10/1				
Location 4 :	0.3m Below Finish Level	Finish Level				
Test Fraction (mm) :	< 19mm	< 19mm				
Oversize Wet :	8%	8%				
Oversize Density - Dry (t/m³) :	2.33	2.34				
Assigned MDR (Yes/No) :	No	No				
MDR Sample Number :	S/290399	S/290400				
MDR Test Date(s) :	05/03/2025 - 21/03/2025	05/03/2025 - 21/03/2025				
Compaction Type :	Hilf-Std	Hilf-Std				
Soil Description :	Sandy CLAY	Sandy CLAY				
MDR Test Results						
PCWD (t/m3) :	2.11	2.10				
Moisture Variation :	0.0%	0.0%				
ADJ PCWD (t/m3) :	2.13	2.12				
ADJ Moisture Variation :	-	-				
Moisture Test Results :						
Field Moisture Content :	10.0%	11.0%				
Moisture Specification :	-	-				
Variation from OMC :	**At OMC**	**At OMC**				
Moisture Ratio :	N/A	N/A				
Density Test Results						
Field Wet Density (t/m3) :	2.14	2.14				
Density Specification :	100%	100%				
Wet Density Ratio :	**100.5%**	**101.0%**				

Remarks :	

NATA
WORLD RECOGNISED ACCREDITATION

Note: The results contained in this report relate only to the item/s that were tested/sampled

Accredited for Compliance with ISO/ IEC 17025 - Testing
Protest Engineering (Darra) Accreditation Number - 2851
Base Laboratory Site Number - 2844 - Darra

Base Laboratory Address - 1-2/35 Limestone Street, Darra, 4076, QLD

APPROVED SIGNATORY

Timothy Watson - Signatory

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PROTEST CONSTRUCTION MATERIALS TESTING

Soil Compaction and Density Tests Report - Compaction Control

Client :	**Shadforths**	Report Number :	**SR/PTP/14690 - 29/1**
Client Address :	**99 Sandalwood Lane, Forest Glen, 4556, QLD**	Report Date :	**4/04/2025**
Project Name :	**Woodlinks Village - Stage 25**	Test Request :	-
Project Number :	**PTP/14690**		**Page 1 of 4**
Location :	**Collingwood Drive, Collingwood Park, QLD, 4301**		
Test Methods :	**AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1**		

Sample Number :	S/292651	S/292652	S/292653	S/292654	S/292655	S/292656
Date/s Tested :	01/04/2025 - 04/04/2025	01/04/2025 - 04/04/2025	01/04/2025 - 04/04/2025	01/04/2025 - 04/04/2025	01/04/2025 - 04/04/2025	01/04/2025 - 04/04/2025
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
For use as :	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill
Test / Layer Depths :	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175
Sampling Method :	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted
Time :	13:00	13:05	13:10	13:15	13:20	13:25
Lot Number :	-	-	-	-	-	-
Location 1 :	Stormwater	Stormwater	Stormwater	Stormwater	Stormwater	Stormwater
Location 2 :	G15/11 - 16/11	16/11 - OUT/11	F1/7 - F2/7	F2/7 - R3/7	G5/5 - R4/5	R4/5 - F3/5
Location 3 :	2m From 16/11	3m From 16/11	2m From F2/7	3m From F2/7	2m From R4/5	5m From R4/5
Location 4 :	0.4m Below Finish Level	Finish Level	0.4m Below Finish Level	Finish Level	0.4m Below Finish Level	Finish Level
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	0%	0%	0%	0%	0%	0%
Oversize Density - Dry (t/m³) :	-	-	-	-	-	-
MDR Sample Number :	S/292651	S/292652	S/292653	S/292654	S/292655	S/292656
MDR Test Date(s) :	04/01/2025 - 04/04/2025	04/01/2025 - 04/04/2025	04/01/2025 - 04/04/2025	04/01/2025 - 04/04/2025	04/01/2025 - 04/04/2025	04/01/2025 - 04/04/2025
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std
Soil Description :	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY
MDR Test Results						
PCWD (t/m3) :	2.14	2.14	2.14	2.14	2.14	2.14
Moisture Variation :	0.0%	0.5%	0.0%	0.0%	0.0%	0.5%
ADJ PCWD (t/m3) :	-	-	-	-	-	-
ADJ Moisture Variation :	-	-	-	-	-	-
Moisture Test Results :						
Field Moisture Content :	12.0%	12.0%	12.0%	12.5%	12.5%	11.5%
Moisture Specification :	-	-	-	-	-	-
Variation from OMC :	**0.0% Wet of OMC**	**0.5% Dry of OMC**	**0.0% Wet of OMC**	**0.0% Wet of OMC**	**0.0% Wet of OMC**	**0.5% Dry of OMC**
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A
Density Test Results						
Field Wet Density (t/m3) :	2.15	2.16	2.16	2.15	2.14	2.14
Density Specification :	95%	95%	95%	95%	95%	95%
Wet Density Ratio :	**100.5%**	**101.0%**	**101.0%**	**100.5%**	**100.0%**	**100.0%**
Remarks :						

NATA WORLD RECOGNISED ACCREDITATION

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PROTEST CONSTRUCTION MATERIALS TESTING

Soil Compaction and Density Tests Report - Compaction Control

Client :	**Shadforths**	Report Number :	**SR/PTP/14690 - 29/1**
Client Address :	**99 Sandalwood Lane, Forest Glen, 4556, QLD**	Report Date :	**4/04/2025**
Project Name :	**Woodlinks Village - Stage 25**	Test Request :	-
Project Number :	**PTP/14690**	**Page 2 of 4**	
Location :	**Collingwood Drive, Collingwood Park, QLD, 4301**		
Test Methods :	**AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1**		

Sample Number :	S/292657	S/292658	S/292659	S/292660	S/292661	S/292662
Date/s Tested :	01/04/2025 - 04/04/2025	01/04/2025 - 04/04/2025	01/04/2025 - 04/04/2025	01/04/2025 - 04/04/2025	01/04/2025 - 04/04/2025	01/04/2025 - 04/04/2025
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
For use as :	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill
Test / Layer Depths :	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175
Sampling Method :	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted
Time :	13:30	13:35	13:40	13:45	13:50	13:55
Lot Number :	-	-	-	-	-	-
Location 1 :	Stormwater	Stormwater	Stormwater	Stormwater	Stormwater	Stormwater
Location 2 :	F1/6 - F3/5	F3/5 - F2/5	F2/5 - F1/5	R12/18 - F11/18	R12/18 - F11/18	F11/18 - F10/18
Location 3 :	2m From F3/5	6m From F3/5	7m From F2/5	7m From F11/18	10m From F11/18	6m From F11/18
Location 4 :	0.4m Below Finish Level	Finish Level	0.4m Below Finish Level	Finish Level	0.4m Below Finish Level	Finish Level
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	0%	0%	0%	0%	0%	0%
Oversize Density - Dry (t/m³) :	-	-	-	-	-	-
MDR Sample Number :	S/292657	S/292658	S/292659	S/292660	S/292661	S/292662
MDR Test Date(s) :	04/01/2025 - 04/04/2025	04/01/2025 - 04/04/2025	04/01/2025 - 04/04/2025	04/01/2025 - 04/04/2025	04/01/2025 - 04/04/2025	04/01/2025 - 04/04/2025
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std
Soil Description :	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY
MDR Test Results						
PCWD (t/m3) :	2.14	2.12	2.13	2.15	2.15	2.14
Moisture Variation :	0.5%	1.0%	0.5%	-0.5%	-0.5%	0.0%
ADJ PCWD (t/m3) :	-	-	-	-	-	-
ADJ Moisture Variation :	-	-	-	-	-	-
Moisture Test Results :						
Field Moisture Content :	11.5%	11.5%	11.5%	12.5%	12.5%	12.0%
Moisture Specification :	-	-	-	-	-	-
Variation from OMC :	**0.5% Dry of OMC**	**1.0% Dry of OMC**	**0.5% Dry of OMC**	**0.5% Wet of OMC**	**0.5% Wet of OMC**	**At OMC**
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A
Density Test Results						
Field Wet Density (t/m3) :	2.15	2.13	2.15	2.14	2.14	2.15
Density Specification :	95%	95%	95%	95%	95%	95%
Wet Density Ratio :	**100.5%**	**100.5%**	**101.0%**	**99.5%**	**99.5%**	**100.5%**
Remarks :						

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Protest Engineering (Darra) Accreditation Number - 2851
Base Laboratory Site Number - 2844 - Darra

Base Laboratory Address - 1-2/35 Limestone Street, Darra, 4076, QLD

APPROVED SIGNATORY

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PROTEST
CONSTRUCTION MATERIALS TESTING

Soil Compaction and Density Tests Report - Compaction Control

Client :	**Shadforths**	Report Number :	**SR/PTP/14690 - 29/1**
Client Address :	**99 Sandalwood Lane, Forest Glen, 4556, QLD**	Report Date :	**4/04/2025**
Project Name :	**Woodlinks Village - Stage 25**	Test Request :	-
Project Number :	**PTP/14690**	**Page 3 of 4**	
Location :	**Collingwood Drive, Collingwood Park, QLD, 4301**		
Test Methods :	**AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1**		

Sample Number :	S/292663	S/292664	S/292665	S/292666	S/292667	S/292668
Date/s Tested :	01/04/2025 - 04/04/2025	01/04/2025 - 04/04/2025	01/04/2025 - 04/04/2025	01/04/2025 - 04/04/2025	01/04/2025 - 04/04/2025	01/04/2025 - 04/04/2025
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
For use as :	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill	Trench Backfill
Test / Layer Depths :	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175
Sampling Method :	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted
Time :	14:00	14:05	14:10	14:15	14:20	14:25
Lot Number :	-	-	-	-	-	-
Location 1 :	Stormwater	Stormwater	Stormwater	Stormwater	Stormwater	Stormwater
Location 2 :	F10/18 - F9/18	F9/18 - F8/18	F8/18 - F7/18	F7/18 - F6/18	F6/18 - F5/18	F5/18 - F4/18
Location 3 :	5m From F10/18	7m From F8/18	9m From F8/18	2m From F6/18	4m From F6/18	4m From F4/18
Location 4 :	0.4m Below Finish Level	Finish Level	0.4m Below Finish Level	Finish Level	0.4m Below Finish Level	Finish Level
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	0%	0%	0%	0%	0%	0%
Oversize Density - Dry (t/m³) :	-	-	-	-	-	-
MDR Sample Number :	S/292663	S/292664	S/292665	S/292666	S/292667	S/292668
MDR Test Date(s) :	04/01/2025 - 04/04/2025	04/01/2025 - 04/04/2025	04/01/2025 - 04/04/2025	04/01/2025 - 04/04/2025	04/01/2025 - 04/04/2025	04/01/2025 - 04/04/2025
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std
Soil Description :	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY
MDR Test Results						
PCWD (t/m3) :	2.14	2.15	2.14	2.12	2.12	2.15
Moisture Variation :	0.0%	0.0%	0.0%	1.0%	1.0%	-0.5%
ADJ PCWD (t/m3) :	-	-	-	-	-	-
ADJ Moisture Variation :	-	-	-	-	-	-
Moisture Test Results :						
Field Moisture Content :	12.5%	12.0%	12.0%	11.5%	11.5%	12.5%
Moisture Specification :	-	-	-	-	-	-
Variation from OMC :	**0.0% Wet of OMC**	**At OMC**	**0.0% Dry of OMC**	**1.0% Dry of OMC**	**1.0% Dry of OMC**	**0.5% Wet of OMC**
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A
Density Test Results						
Field Wet Density (t/m3) :	2.15	2.15	2.16	2.16	2.14	2.14
Density Specification :	95%	95%	95%	95%	95%	95%
Wet Density Ratio :	**100.5%**	**100.5%**	**101.0%**	**102.0%**	**100.5%**	**99.5%**
Remarks :						

NATA
WORLD RECOGNISED ACCREDITATION

Note: The results contained in this report relate only to the item/s that were tested/sampled

Accredited for Compliance with ISO/ IEC 17025 - Testing
Protest Engineering (Darra) Accreditation Number - 2851
Base Laboratory Site Number - 2844 - Darra

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PROTEST
CONSTRUCTION MATERIALS TESTING

Soil Compaction and Density Tests Report - Compaction Control

Client :	**Shadforths**	Report Number :	**SR/PTP/14690 - 29/1**
Client Address :	**99 Sandalwood Lane, Forest Glen, 4556, QLD**	Report Date :	**4/04/2025**
Project Name :	**Woodlinks Village - Stage 25**	Test Request :	-
Project Number :	**PTP/14690**	**Page 4 of 4**	
Location :	**Collingwood Drive, Collingwood Park, QLD, 4301**		

Test Methods :	**AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1**

Sample Number :	S/292669	S/292670				
Date/s Tested :	01/04/2025 - 04/04/2025	01/04/2025 - 04/04/2025				
Material Source :	Onsite	Onsite				
For use as :	Trench Backfill	Trench Backfill				
Test / Layer Depths :	150 / 175	150 / 175				
Sampling Method :	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted				
Time :	14:30	14:35				
Lot Number :	-	-				
Location 1 :	Stormwater	Stormwater				
Location 2 :	F4/18 - F3/18	R3/7 - G8/5				
Location 3 :	5m From F4/18	1m From G8/5				
Location 4 :	0.4m Below Finish Level	Finish Level				
Test Fraction (mm) :	< 19mm	< 19mm				
Oversize Wet :	0%	0%				
Oversize Density - Dry (t/m³) :	-	-				
MDR Sample Number :	S/292669	S/292670				
MDR Test Date(s) :	04/01/2025 - 04/04/2025	04/01/2025 - 04/04/2025				
Compaction Type :	Hilf-Std	Hilf-Std				
Soil Description :	Sandy CLAY	Sandy CLAY				
MDR Test Results						
PCWD (t/m3) :	2.14	2.14				
Moisture Variation :	-0.5%	-0.5%				
ADJ PCWD (t/m3) :	-	-				
ADJ Moisture Variation :	-	-				
Moisture Test Results :						
Field Moisture Content :	12.5%	12.5%				
Moisture Specification :	-	-				
Variation from OMC :	**0.5% Wet of OMC**	**0.5% Wet of OMC**				
Moisture Ratio :	N/A	N/A				
Density Test Results						
Field Wet Density (t/m3) :	2.15	2.16				
Density Specification :	95%	95%				
Wet Density Ratio :	**100.5%**	**101.0%**				

Remarks :	

NATA
WORLD RECOGNISED ACCREDITATION

Note: The results contained in this report relate only to the item/s that were tested/sampled

Accredited for Compliance with ISO/ IEC 17025 - Testing
Protest Engineering (Darra) Accreditation Number - 2851
Base Laboratory Site Number - 2844 - Darra

Base Laboratory Address - 1-2/35 Limestone Street, Darra, 4076, QLD

APPROVED SIGNATORY

Timothy Watson - Signatory

Protest CMT
ABN: 26602913673
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Soil Compaction and Density Tests Report - Compaction Control

Client :	**Shadforths**	Report Number :	**SR/PTP/14690 - 30/1**
Client Address :	**99 Sandalwood Lane, Forest Glen, 4556, QLD**	Report Date :	**4/04/2025**
Project Name :	**Woodlinks Village - Stage 25**	Test Request :	-
Project Number :	**PTP/14690**	**Page 1 of 1**	
Location :	**Collingwood Park**		

Test Methods :	**AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1**

Sample Number :	S/292560	S/292561	S/292562	S/292563	S/292564	S/292565
Date/s Tested :	01/04/2025 - 04/04/2025	01/04/2025 - 04/04/2025	01/04/2025 - 04/04/2025	01/04/2025 - 04/04/2025	01/04/2025 - 04/04/2025	01/04/2025 - 04/04/2025
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
For use as :	Watermain Road Crossing	Watermain Road Crossing	Watermain Road Crossing	Watermain Road Crossing	Watermain Road Crossing	Watermain Road Crossing
Test / Layer Depths :	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175
Sampling Method :	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted
Time :	10:30	10:35	10:40	10:45	10:50	10:55
Lot Number :	-	-	-	-	-	-
Location 1 :	Road 2	Road 2	Road 2	Road 3	Road 3	Road 1
Location 2 :	CH 108	CH 63	CH 15	CH 17	CH 114	CH 40
Location 3 :	Finish Level	Finish Level	Finish Level	Finish Level	Finish Level	Finish Level
Location 4 :	-	-	-	-	-	-
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	0%	0%	0%	0%	0%	0%
Oversize Density - Dry (t/m³) :	-	-	-	-	-	-
MDR Sample Number :	S/292560	S/292561	S/292562	S/292563	S/292564	S/292565
MDR Test Date(s) :	01/04/2025 - 04/04/2025	01/04/2025 - 04/04/2025	01/04/2025 - 04/04/2025	01/04/2025 - 04/04/2025	01/04/2025 - 04/04/2025	01/04/2025 - 04/04/2025
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std
Soil Description :	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY
MDR Test Results						
PCWD (t/m3) :	2.14	2.14	2.13	2.14	2.15	2.15
Moisture Variation :	-0.5%	0.5%	-0.5%	-0.5%	0.5%	0.5%
ADJ PCWD (t/m3) :	-	-	-	-	-	-
ADJ Moisture Variation :	-	-	-	-	-	-
Moisture Test Results :						
Field Moisture Content :	12.5%	11.5%	12.5%	12.5%	11.5%	11.5%
Moisture Specification :	-	-	-	-	-	-
Variation from OMC :	**0.5% Wet of OMC**	**0.5% Dry of OMC**	**0.5% Wet of OMC**	**0.5% Wet of OMC**	**0.5% Dry of OMC**	**0.5% Dry of OMC**
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A
Density Test Results						
Field Wet Density (t/m3) :	2.15	2.14	2.14	2.15	2.15	2.15
Density Specification :	100%	100%	100%	100%	100%	100%
Wet Density Ratio :	**100.5%**	**100.0%**	**100.0%**	**100.5%**	**100.0%**	**100.0%**

Remarks :	

Note: The results contained in this report relate only to the item/s that were tested/sampled

Accredited for Compliance with ISO/ IEC 17025 - Testing
Protest Engineering (Darra) Accreditation Number - 2851
Base Laboratory Site Number - 2844 - Darra

Base Laboratory Address - 1-2/35 Limestone Street, Darra, 4076, QLD

APPROVED SIGNATORY

Timothy Watson - Signatory

Protest CMT
ABN: 26602913673
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PROTEST
CONSTRUCTION MATERIALS TESTING

Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforths	Report Number :	SR/PTP/14690 - 31/1
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD	Report Date :	4/04/2025
Project Name :	Woodlinks Village - Stage 25	Test Request :	-
Project Number :	PTP/14690	Page 1 of 1	
Location :	Collingwood Drive, Collingwood Park, QLD, 4301		

Test Methods :	AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1

Sample Number :	S/292702					
Date/s Tested :	04/01/2025 - 04/04/2025					
Material Source :	Onsite					
For use as :	Watermain Road Crossing					
Test / Layer Depths :	150 / 175					
Sampling Method :	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted					
Time :	11:00					
Lot Number :	-					
Location 1 :	Driveway 02					
Location 2 :	CH 14					
Location 3 :	Finish Level					
Location 4 :	-					
Test Fraction (mm) :	< 19mm					
Oversize Wet :	0%					
Oversize Density - Dry (t/m³) :	-					
MDR Sample Number :	S/292702					
MDR Test Date(s) :	04/01/2025 - 04/04/2025					
Compaction Type :	Hilf-Std					
Soil Description :	Sandy CLAY					
MDR Test Results						
PCWD (t/m3) :	2.15					
Moisture Variation :	-0.5%					
ADJ PCWD (t/m3) :	-					
ADJ Moisture Variation :	-					
Moisture Test Results :						
Field Moisture Content :	12.5%					
Moisture Specification :	-					
Variation from OMC :	**0.5% Wet of OMC**					
Moisture Ratio :	N/A					
Density Test Results						
Field Wet Density (t/m3) :	2.15					
Density Specification :	100%					
Wet Density Ratio :	**100.5%**					

Remarks :	

NATA
WORLD RECOGNISED ACCREDITATION

Note: The results contained in this report relate only to the item/s that were tested/sampled

Accredited for Compliance with ISO/ IEC 17025 - Testing
Protest Engineering (Darra) Accreditation Number - 2851
Base Laboratory Site Number - 2844 - Darra

Base Laboratory Address - 1-2/35 Limestone Street, Darra, 4076, QLD

APPROVED SIGNATORY

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PROTEST
CONSTRUCTION MATERIALS TESTING

Soil Compaction and Density Tests Report - Compaction Control

Client :	**Shadforths**	Report Number :	**SR/PTP/14690 - 32/1**
Client Address :	**99 Sandalwood Lane, Forest Glen, 4556, QLD**	Report Date :	**7/04/2025**
Project Name :	**Woodlinks Village - Stage 25**	Test Request :	-
Project Number :	**PTP/14690**	**Page 1 of 4**	
Location :	**Collingwood Park**		

Test Methods :	**AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1**

Sample Number :	S/292302	S/292303	S/292304	S/292305	S/292306	S/292307
Date/s Tested :	31/03/2025 - 07/04/2025	31/03/2025 - 07/04/2025	31/03/2025 - 07/04/2025	31/03/2025 - 07/04/2025	31/03/2025 - 07/04/2025	31/03/2025 - 07/04/2025
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
For use as :	General Fill	General Fill	General Fill	General Fill	General Fill	General Fill
Test / Layer Depths :	175 / 200	175 / 200	175 / 200	175 / 200	175 / 200	175 / 200
Sampling Method :	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted
Time :	11:10	11:15	11:20	11:25	11:30	11:35
Lot Number :	-	-	-	-	-	-
Location 1 :	E 486149	E 486153	E 486137	E 486162	E 486164	E 486145
Location 2 :	N 6944338	N 6944324	N 6944314	N 6944275	N 6944262	N 6944254
Location 3 :	RL 42.98	RL 42.11	RL 41.77	RL 38.14	RL 36.50	RL 37.12
Location 4 :	-	-	-	-	-	-
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	0%	0%	0%	0%	0%	0%
Oversize Density - Dry (t/m³) :	-	-	-	-	-	-
MDR Sample Number :	S/292302	S/292303	S/292304	S/292305	S/292306	S/292307
MDR Test Date(s) :	31/03/2025 - 07/04/2025	31/03/2025 - 07/04/2025	31/03/2025 - 07/04/2025	31/03/2025 - 07/04/2025	31/03/2025 - 07/04/2025	31/03/2025 - 07/04/2025
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std
Soil Description :	(CL) Sandy CLAY, Low Plasticity, Pale Brown, Mottled White, Moist	(CL) Sandy CLAY, Low Plasticity, Pale Brown, Mottled White, Moist	(CL) Sandy CLAY, Low Plasticity, Pale Brown, Mottled White, Moist	(CL) Sandy CLAY, Low Plasticity, Pale Brown, Mottled White, Moist	(CL) Sandy CLAY, Low Plasticity, Pale Brown, Mottled White, Moist	(CL) Sandy CLAY, Low Plasticity, Pale Brown, Mottled White, Moist
MDR Test Results						
PCWD (t/m3) :	2.07	2.13	2.08	2.08	2.07	2.07
Moisture Variation :	2.0%	1.5%	1.5%	1.5%	2.0%	2.0%
ADJ PCWD (t/m3) :	-	-	-	-	-	-
ADJ Moisture Variation :	-	-	-	-	-	-
Moisture Test Results :						
Field Moisture Content :	11.5%	12.0%	12.0%	12.0%	11.5%	11.0%
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC
Variation from OMC :	**2.0% Dry of OMC**	**1.5% Dry of OMC**	**1.5% Dry of OMC**	**1.5% Dry of OMC**	**2.0% Dry of OMC**	**2.0% Dry of OMC**
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A
Density Test Results						
Field Wet Density (t/m3) :	2.12	2.16	2.14	2.12	2.13	2.12
Density Specification :	95%	95%	95%	95%	95%	95%
Wet Density Ratio :	**102.5%**	**101.5%**	**103.0%**	**102.0%**	**103.0%**	**102.5%**

Remarks :	

NATA WORLD RECOGNISED ACCREDITATION

Note: The results contained in this report relate only to the item/s that were tested/sampled

Accredited for Compliance with ISO/ IEC 17025 - Testing
Protest Engineering (Gold Coast) Accreditation Number - 19667
Base Laboratory Site Number - 22838 - Gold Coast

Base Laboratory Address - 8/36 Blanck Street, Ormeau, 4208, QLD

APPROVED SIGNATORY

B. Parrella

Brandon Parrella - Signatory

Protest CMT
ABN: 26602913673
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Soil Compaction and Density Tests Report - Compaction Control

Client :	**Shadforths**	Report Number :	**SR/PTP/14690 - 32/1**
Client Address :	**99 Sandalwood Lane, Forest Glen, 4556, QLD**	Report Date :	**7/04/2025**
Project Name :	**Woodlinks Village - Stage 25**	Test Request :	-
Project Number :	**PTP/14690**		**Page 2 of 4**
Location :	**Collingwood Park**		

Test Methods :	**AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1**

Sample Number :	S/292308	S/292309	S/292310	S/292311	S/292312	S/292313
Date/s Tested :	31/03/2025 - 07/04/2025	31/03/2025 - 07/04/2025	31/03/2025 - 07/04/2025	31/03/2025 - 07/04/2025	31/03/2025 - 07/04/2025	31/03/2025 - 07/04/2025
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
For use as :	General Fill	General Fill	General Fill	General Fill	General Fill	General Fill
Test / Layer Depths :	175 / 200	175 / 200	175 / 200	175 / 200	175 / 200	175 / 200
Sampling Method :	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted
Time :	11:40	11:45	11:50	11:55	12:00	12:05
Lot Number :	-	-	-	-	-	-
Location 1 :	E 486132	E 486137	E 486124	E 486135	E 486136	E 486098
Location 2 :	N 6944249	N 6944261	N 6944263	N 6944288	N 6944272	N 6944249
Location 3 :	RL 38.20	RL 39.52	RL 40.10	RL 40.90	RL 41.05	RL 40.49
Location 4 :	-	-	-	-	-	-
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	0%	0%	0%	0%	0%	0%
Oversize Density - Dry (t/m³) :	-	-	-	-	-	-
	No	No	No	No	No	No
MDR Sample Number :	S/292308	S/292309	S/292310	S/292311	S/292312	S/292313
MDR Test Date(s) :	31/03/2025 - 07/04/2025	31/03/2025 - 07/04/2025	31/03/2025 - 07/04/2025	31/03/2025 - 07/04/2025	31/03/2025 - 07/04/2025	31/03/2025 - 07/04/2025
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std
Soil Description :	(CL) Sandy CLAY, Low Plasticity, Pale Brown, Mottled White, Moist	(CL) Sandy CLAY, Low Plasticity, Pale Brown, Mottled White, Moist	(CL) Sandy CLAY, Low Plasticity, Pale Brown, Mottled White, Moist	(CL) Sandy CLAY, Low Plasticity, Pale Brown, Mottled White, Moist	(CL) Sandy CLAY, Low Plasticity, Pale Brown, Mottled White, Moist	(CL) Sandy CLAY, Low Plasticity, Pale Brown, Mottled White, Moist
MDR Test Results						
PCWD (t/m3) :	2.11	2.11	2.11	2.08	2.12	2.09
Moisture Variation :	2.0%	1.5%	2.0%	1.5%	1.5%	1.5%
ADJ PCWD (t/m3) :	-	-	-	-	-	-
ADJ Moisture Variation :	-	-	-	-	-	-
Moisture Test Results :						
Field Moisture Content :	11.0%	11.5%	11.0%	12.0%	12.0%	12.0%
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC
Variation from OMC :	**2.0% Dry of OMC**	**1.5% Dry of OMC**	**2.0% Dry of OMC**	**1.5% Dry of OMC**	**1.5% Dry of OMC**	**1.5% Dry of OMC**
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A
Density Test Results						
Field Wet Density (t/m3) :	2.12	2.14	2.13	2.11	2.15	2.12
Density Specification :	95%	95%	95%	95%	95%	95%
Wet Density Ratio :	**100.5%**	**101.5%**	**101.0%**	**101.5%**	**101.5%**	**101.5%**

Remarks :	

Note: The results contained in this report relate only to the item/s that were tested/sampled

Accredited for Compliance with ISO/ IEC 17025 - Testing
Protest Engineering (Gold Coast) Accreditation Number - 19667
Base Laboratory Site Number - 22838 - Gold Coast

Base Laboratory Address - 8/36 Blanck Street, Ormeau, 4208, QLD

APPROVED SIGNATORY

Brandon Parrella - Signatory

Protest CMT
ABN: 26602913673
www.protestcmt.com.au

PROTEST CONSTRUCTION MATERIALS TESTING

Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforths	Report Number :	SR/PTP/14690 - 32/1
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD	Report Date :	7/04/2025
Project Name :	Woodlinks Village - Stage 25	Test Request :	-
Project Number :	PTP/14690		Page 3 of 4
Location :	Collingwood Park		

Test Methods :	AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1

Sample Number :	S/292314	S/292315	S/292316	S/292317	S/292318	S/292319
Date/s Tested :	31/03/2025 - 07/04/2025	31/03/2025 - 07/04/2025	31/03/2025 - 07/04/2025	31/03/2025 - 07/04/2025	31/03/2025 - 07/04/2025	31/03/2025 - 07/04/2025
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
For use as :	General Fill	General Fill	General Fill	General Fill	General Fill	General Fill
Test / Layer Depths :	175 / 200	175 / 200	175 / 200	175 / 200	175 / 200	175 / 200
Sampling Method :	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted
Time :	12:10	12:15	12:20	12:25	12:30	12:35
Lot Number :	-	-	-	-	-	-
Location 1 :	E 486083	E 486102	E 486090	E 486106	E 486093	E 486188
Location 2 :	N 6944247	N 6944238	N 6944234	N 6944229	N 6944221	N 6944282
Location 3 :	RL 41.00	RL 39.41	RL 39.89	RL 37.73	RL 38.77	RL 37.00
Location 4 :	-	-	-	-	-	-
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	0%	0%	0%	0%	0%	0%
Oversize Density - Dry (t/m³) :	-	-	-	-	-	-
	No	No	No	No	No	No
MDR Sample Number :	S/292314	S/292315	S/292316	S/292317	S/292318	S/292319
MDR Test Date(s) :	31/03/2025 - 07/04/2025	31/03/2025 - 07/04/2025	31/03/2025 - 07/04/2025	31/03/2025 - 07/04/2025	31/03/2025 - 07/04/2025	31/03/2025 - 07/04/2025
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std
Soil Description :	(CL) Sandy CLAY, Low Plasticity, Pale Brown, Mottled White, Moist	(CL) Sandy CLAY, Low Plasticity, Pale Brown, Mottled White, Moist	(CL) Sandy CLAY, Low Plasticity, Pale Brown, Mottled White, Moist	(CL) Sandy CLAY, Low Plasticity, Pale Brown, Mottled White, Moist	(CL) Sandy CLAY, Low Plasticity, Pale Brown, Mottled White, Moist	(CL) Sandy CLAY, Low Plasticity, Pale Brown, Mottled White, Moist
MDR Test Results						
PCWD (t/m3) :	2.09	2.06	2.09	2.10	2.08	2.08
Moisture Variation :	2.0%	1.5%	1.5%	1.5%	2.0%	1.5%
ADJ PCWD (t/m3) :	-	-	-	-	-	-
ADJ Moisture Variation :	-	-	-	-	-	-
Moisture Test Results :						
Field Moisture Content :	11.5%	12.0%	12.0%	12.0%	11.5%	12.0%
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC
Variation from OMC :	**2.0% Dry of OMC**	**1.5% Dry of OMC**	**1.5% Dry of OMC**	**1.5% Dry of OMC**	**2.0% Dry of OMC**	**1.5% Dry of OMC**
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A
Density Test Results						
Field Wet Density (t/m3) :	2.11	2.12	2.14	2.17	2.12	2.13
Density Specification :	95%	95%	95%	95%	95%	95%
Wet Density Ratio :	**101.0%**	**102.5%**	**102.0%**	**103.0%**	**101.5%**	**102.0%**

Remarks :	

NATA WORLD RECOGNISED ACCREDITATION

Note: The results contained in this report relate only to the item/s that were tested/sampled

Accredited for Compliance with ISO/ IEC 17025 - Testing
Protest Engineering (Gold Coast) Accreditation Number - 19667
Base Laboratory Site Number - 22838 - Gold Coast

Base Laboratory Address - 8/36 Blanck Street, Ormeau, 4208, QLD

APPROVED SIGNATORY

B. Parrella

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PROTEST
CONSTRUCTION MATERIALS TESTING

Soil Compaction and Density Tests Report - Compaction Control

Client :	**Shadforths**	Report Number :	**SR/PTP/14690 - 32/1**
Client Address :	**99 Sandalwood Lane, Forest Glen, 4556, QLD**	Report Date :	**7/04/2025**
Project Name :	**Woodlinks Village - Stage 25**	Test Request :	-
Project Number :	**PTP/14690**		
Location :	**Collingwood Park**		

Test Methods :	**AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1**

Sample Number :	S/292320	S/292321				
Date/s Tested :	31/03/2025 - 07/04/2025	31/03/2025 - 07/04/2025				
Material Source :	Onsite	Onsite				
For use as :	General Fill	General Fill				
Test / Layer Depths :	175 / 200	175 / 200				
Sampling Method :	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted	AS1289.1.2.1 - cl6.4b - (Compacted) Sampling from Layers in Earthworks or Pavement - Compacted				
Time :	12:40	12:45				
Lot Number :	-	-				
Location 1 :	E 486164	E 486126				
Location 2 :	N 6944221	N 6944232				
Location 3 :	RL 34.98	RL 38.03				
Location 4 :	-	-				
Test Fraction (mm) :	< 19mm	< 19mm				
Oversize Wet :	0%	0%				
Oversize Density - Dry (t/m³) :	-	-				
	No	No				
MDR Sample Number :	S/292320	S/292321				
MDR Test Date(s) :	31/03/2025 - 07/04/2025	31/03/2025 - 07/04/2025				
Compaction Type :	Hilf-Std	Hilf-Std				
Soil Description :	(CL) Sandy CLAY, Low Plasticity, Pale Brown, Mottled White, Moist	(CL) Sandy CLAY, Low Plasticity, Pale Brown, Mottled White, Moist				
MDR Test Results						
PCWD (t/m3) :	2.11	2.10				
Moisture Variation :	2.0%	1.5%				
ADJ PCWD (t/m3) :	-	-				
ADJ Moisture Variation :	-	-				
Moisture Test Results :						
Field Moisture Content :	11.0%	11.5%				
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC				
Variation from OMC :	**2.0% Dry of OMC**	**1.5% Dry of OMC**				
Moisture Ratio :	N/A	N/A				
Density Test Results						
Field Wet Density (t/m3) :	2.16	2.14				
Density Specification :	95%	95%				
Wet Density Ratio :	**102.5%**	**102.0%**				

Remarks :	

NATA
WORLD RECOGNISED ACCREDITATION

Note: The results contained in this report relate only to the item/s that were tested/sampled

Accredited for Compliance with ISO/ IEC 17025 - Testing
Protest Engineering (Gold Coast) Accreditation Number - 19667
Base Laboratory Site Number - 22838 - Gold Coast

Base Laboratory Address - 8/36 Blanck Street, Ormeau, 4208, QLD

APPROVED SIGNATORY

B. Parrella

Brandon Parrella - Signatory

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PROTEST
CONSTRUCTION MATERIALS TESTING

Soil Compaction and Density Tests Report - Compaction Control

Client :	**Shadforths**	Report Number :	**SR/PTP/14690 - 33/1**
Client Address :	**99 Sandalwood Lane, Forest Glen, 4556, QLD**	Report Date :	**8/04/2025**
Project Name :	**Woodlinks Village - Stage 25**	Test Request :	-
Project Number :	**PTP/14690**	**Page 1 of 1**	
Location :	**Collingwood Drive, Collingwood Park, QLD, 4301**		

Test Methods :	**AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1**

Sample Number :	S/292696	S/292697	S/292698	S/292699	S/292700	S/292701
Date/s Tested :	01/04/2025 - 08/04/2025	01/04/2025 - 08/04/2025	01/04/2025 - 08/04/2025	01/04/2025 - 08/04/2025	01/04/2025 - 08/04/2025	01/04/2025 - 08/04/2025
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
For use as :	Watermain Verge	Watermain Verge	Watermain Verge	Watermain Verge	Watermain Verge	Watermain Verge
Test / Layer Depths :	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175	150 / 175
Sampling Location :	Client Selected	Client Selected	Client Selected	Client Selected	Client Selected	Client Selected
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b
Time :	10:15	10:20	10:25	10:30	10:35	10:40
Lot Number :	-	-	-	-	-	-
Location 1 :	Road 02	Road 02	Road 01	Road 01	Road 03	Road 03
Location 2 :	CH 100	CH 40	CH 75	CH 145	CH 55	CH 135
Location 3 :	Finish Level	Finish Level	Finish Level	Finish Level	Finish Level	Finish Level
Location 4 :	-	-	-	-	-	-
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	0%	0%	0%	0%	0%	0%
Oversize Density - Dry (t/m³) :	-	-	-	-	-	-
MDR Sample Number :	S/292696	S/292697	S/292698	S/292699	S/292700	S/292701
MDR Test Date(s) :	01/04/2025 - 08/04/2025	01/04/2025 - 08/04/2025	01/04/2025 - 08/04/2025	01/04/2025 - 08/04/2025	01/04/2025 - 08/04/2025	01/04/2025 - 08/04/2025
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std
Soil Description :	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY	Sandy CLAY
MDR Test Results						
PCWD (t/m3) :	2.16	2.16	2.16	2.16	2.16	2.16
Moisture Variation :	0.0%	0.0%	-0.5%	0.0%	0.0%	0.0%
ADJ PCWD (t/m3) :	-	-	-	-	-	-
ADJ Moisture Variation :	-	-	-	-	-	-
Moisture Test Results :						
Field Moisture Content :	13.0%	13.0%	13.5%	13.0%	12.5%	13.0%
Moisture Specification :	-	-	-	-	-	-
Variation from OMC :	**0.0% Dry of OMC**	**At OMC**	**0.5% Wet of OMC**	**0.0% Dry of OMC**	**0.0% Dry of OMC**	**0.0% Dry of OMC**
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A
Density Test Results						
Field Wet Density (t/m3) :	2.16	2.15	2.15	2.14	2.14	2.15
Density Specification :	95%	95%	95%	95%	95%	95%
Wet Density Ratio :	**100.0%**	**100.0%**	**99.0%**	**99.0%**	**99.0%**	**100.0%**

Remarks :	

NATA
WORLD RECOGNISED ACCREDITATION

Note: The results contained in this report relate only to the item/s that were tested/sampled

Accredited for Compliance with ISO/ IEC 17025 - Testing
Protest Engineering (Darra) Accreditation Number - 2851
Base Laboratory Site Number - 2844 - Darra

Base Laboratory Address - 1-2/35 Limestone Street, Darra, 4076, QLD

APPROVED SIGNATORY

Timothy Buck - Signatory

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PROTEST
CONSTRUCTION MATERIALS TESTING

Soil Compaction and Density Tests Report - Compaction Control

Client :	**Shadforths**	Report Number :	**SR/PTP/14690 - 34/1**
Client Address :	**99 Sandalwood Lane, Forest Glen, 4556, QLD**	Report Date :	**9/04/2025**
Project Name :	**Woodlinks Village - Stage 25**	Test Request :	-
Project Number :	**PTP/14690**	**Page 1 of 1**	
Location :	**Collingwood Drive, Collingwood Park, QLD, 4301**		

Test Methods :	**AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1**

Sample Number :	S/292558					
Date/s Tested :	01/04/2025 - 09/04/2025					
Material Source :	Onsite					
For use as :	Watermain Verge					
Test / Layer Depths :	150 / 175					
Sampling Location :	Client Selected					
Sampling Method :	AS1289.1.2.1 - cl6.4b					
Time :	10:10					
Lot Number :	-					
Location 1 :	Road 02					
Location 2 :	CH 160					
Location 3 :	Finish Level					
Location 4 :	-					
Test Fraction (mm) :	< 19mm					
Oversize Wet :	0%					
Oversize Density - Dry (t/m³) :	-					
MDR Sample Number :	S/292558					
MDR Test Date(s) :	01/04/2025 - 09/04/2025					
Compaction Type :	Hilf-Std					
Soil Description :	Sandy CLAY					
MDR Test Results						
PCWD (t/m3) :	2.17					
Moisture Variation :	0.0%					
ADJ PCWD (t/m3) :	-					
ADJ Moisture Variation :	-					
Moisture Test Results :						
Field Moisture Content :	12.5%					
Moisture Specification :	-					
Variation from OMC :	**At OMC**					
Moisture Ratio :	N/A					
Density Test Results						
Field Wet Density (t/m3) :	2.15					
Density Specification :	95%					
Wet Density Ratio :	**99.5%**					

Remarks :	

Note: The results contained in this report relate only to the item/s that were tested/sampled

Accredited for Compliance with ISO/ IEC 17025 - Testing
Protest Engineering (Darra) Accreditation Number - 2851
Base Laboratory Site Number - 2844 - Darra

Base Laboratory Address - 1-2/35 Limestone Street, Darra, 4076, QLD

Timothy Watson - Signatory

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PROTEST
CONSTRUCTION MATERIALS TESTING

Soil Compaction and Density Tests Report - Compaction Control

Client :	**Shadforths**	Report Number :	**SR/PTP/14690 - 1/1**
Client Address :	**99 Sandalwood Lane, Forest Glen, 4556, QLD**	Report Date :	**24/01/2025**
Project Name :	**Woodlinks Village - Stage 25**	Test Request :	-
Project Number :	**PTP/14690**	**Page 1 of 1**	
Location :	**Collingwood Park**		

Test Methods :	**AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1**

Sample Number :	S/283888	S/283889	S/283890	S/283891	S/283892	
Date/s Tested :	21/01/2025 - 24/01/2025	21/01/2025 - 24/01/2025	21/01/2025 - 24/01/2025	21/01/2025 - 24/01/2025	21/01/2025 - 24/01/2025	
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	
For use as :	General Fill	General Fill	General Fill	General Fill	General Fill	
Test / Layer Depths :	275 / 300	275 / 300	275 / 300	275 / 300	275 / 300	
Sampling Method :	AS1141.3.1 - cl10.1	AS1141.3.1 - cl10.1	AS1141.3.1 - cl10.1	AS1141.3.1 - cl10.1	AS1141.3.1 - cl10.1	
Time :	09:20	09:30	09:50	10:10	10:30	
Lot Number :	-	-	-	-	-	
Location 1 :	Lot 660	Lot 659	Lot 658	Lot 657	Lot 656	
Location 2 :	E 486195	E 486187	E 486187	E 486187	E 486183	
Location 3 :	N 6944374	6944363	N 6944350	N 6944335	N 6944323	
Location 4 :	RL 46.05	RL 44.85	RL 43.60	RL 42.60	RL 41.30	
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	
Oversize Wet :	9%	9%	9%	9%	10%	
Oversize Density - Dry (t/m³) :	2.40	2.36	2.39	2.44	2.37	
Assigned MDR (Yes/No) :	No	No	No	No	No	
MDR Sample Number :	S/283888	S/283889	S/283890	S/283891	S/283892	
MDR Test Date(s) :	21/01/2025 - 24/01/2025	21/01/2025 - 24/01/2025	21/01/2025 - 24/01/2025	21/01/2025 - 24/01/2025	21/01/2025 - 24/01/2025	
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	
Soil Description :	Gravelly Sandy CLAY	Gravelly Sandy CLAY	Gravelly Sandy CLAY	Gravelly Sandy CLAY	Gravelly Sandy CLAY	
MDR Test Results						
PCWD (t/m3) :	2.19	2.17	2.13	2.13	2.12	
Moisture Variation :	0.5%	-0.5%	-0.5%	-0.5%	0.0%	
ADJ PCWD (t/m3) :	2.20	2.18	2.15	2.16	2.14	
ADJ Moisture Variation :	0.5%	-0.5%	-0.5%	-0.5%	0.0%	
Moisture Test Results :						
Field Moisture Content :	10.0%	11.0%	11.0%	11.0%	10.5%	
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	
Variation from OMC :	**0.5% Dry of OMC**	**0.5% Wet of OMC**	**0.5% Wet of OMC**	**0.5% Wet of OMC**	**0.0% Dry of OMC**	
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	
Density Test Results						
Field Wet Density (t/m3) :	2.20	2.14	2.06	2.07	2.04	
Density Specification :	95%	95%	95%	95%	95%	
Wet Density Ratio :	**99.5%**	**98.0%**	**95.5%**	**96.0%**	**95.5%**	

Remarks :	

NATA
WORLD RECOGNISED ACCREDITATION

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Accredited for Compliance with ISO/ IEC 17025 - Testing
Protest Engineering (Darra) Accreditation Number - 2851
Base Laboratory Site Number - 2844 - Darra

Base Laboratory Address - 1-2/35 Limestone Street, Darra, 4076, QLD

APPROVED SIGNATORY

Timothy Watson - Signatory

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PROTEST
CONSTRUCTION MATERIALS TESTING

Soil Compaction and Density Tests Report - Compaction Control

Client :	**Shadforths**	Report Number :	**SR/PTP/14690 - 14/1**
Client Address :	**99 Sandalwood Lane, Forest Glen, 4556, QLD**	Report Date :	**20/02/2025**
Project Name :	**Woodlinks Village - Stage 25**	Test Request :	-
Project Number :	**PTP/14690**		
Location :	**Collingwood Park**		

Test Methods :	**AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1**

Sample Number :	S/285510	S/285511	S/285512	S/285513	S/285514	S/285515
Date/s Tested :	03/02/2025 - 20/02/2025	03/02/2025 - 20/02/2025	03/02/2025 - 20/02/2025	03/02/2025 - 20/02/2025	03/02/2025 - 20/02/2025	03/02/2025 - 20/02/2025
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
For use as :	General Fill	General Fill	General Fill	General Fill	General Fill	General Fill
Test / Layer Depths :	175 / 200	175 / 200	175 / 200	175 / 200	175 / 200	175 / 200
Sampling Method :	AS1141.3.1 - cl10.1	AS1141.3.1 - cl10.1	AS1141.3.1 - cl10.1	AS1141.3.1 - cl10.1	AS1141.3.1 - cl10.1	AS1141.3.1 - cl10.1
Time :	13:45	13:55	14:10	14:20	14:30	14:40
Lot Number :	Lot 762	Lot 755	Lot 754	Lot 753	Lot 752	Lot 751
Location 1 :	-	-	-	-	-	-
Location 2 :	E 486118	E 486114	E 486102	E 486099	E 486089	E 486096
Location 3 :	N 6944344	N 6944333	N 6944322	N 6944312	6944304	N 6944290
Location 4 :	0.4m Below Finish Level	0.4m Below Finish Level	0.4m Below Finish Level	0.4m Below Finish Level	0.4m Below Finish Level	0.4m Below Finish Level
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	0%	0%	0%	0%	0%	0%
Oversize Density - Dry (t/m³) :	-	-	-	-	-	-
Assigned MDR (Yes/No) :	No	No	No	No	No	No
MDR Sample Number :	S/285510	S/285511	S/285512	S/285513	S/285514	S/285515
MDR Test Date(s) :	03/02/2025 - 20/02/2025	03/02/2025 - 20/02/2025	03/02/2025 - 20/02/2025	03/02/2025 - 20/02/2025	03/02/2025 - 20/02/2025	03/02/2025 - 20/02/2025
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std
Soil Description :	Gravelly Sandy CLAY	Gravelly Sandy CLAY	Gravelly Sandy CLAY	Gravelly Sandy CLAY	Gravelly Sandy CLAY	Gravelly Sandy CLAY
MDR Test Results						
PCWD (t/m3) :	2.30	2.24	2.28	2.23	2.27	2.28
Moisture Variation :	0.0%	1.5%	0.0%	1.5%	0.0%	1.0%
ADJ PCWD (t/m3) :	-	-	-	-	-	-
ADJ Moisture Variation :	-	-	-	-	-	-
Moisture Test Results :						
Field Moisture Content :	7.5%	6.0%	8.0%	6.0%	7.5%	6.5%
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC
Variation from OMC :	**At OMC**	**1.5% Dry of OMC**	**0.0% Wet of OMC**	**1.5% Dry of OMC**	**0.0% Dry of OMC**	**1.0% Dry of OMC**
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A
Density Test Results						
Field Wet Density (t/m3) :	2.26	2.14	2.29	2.12	2.26	2.21
Density Specification :	95%	95%	95%	95%	95%	95%
Wet Density Ratio :	**98.0%**	**95.5%**	**100.5%**	**95.0%**	**99.5%**	**97.0%**

Remarks :	

NATA
WORLD RECOGNISED ACCREDITATION

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Accredited for Compliance with ISO/ IEC 17025 - Testing
Protest Engineering (Darra) Accreditation Number - 2851
Base Laboratory Site Number - 2844 - Darra

Base Laboratory Address - 1-2/35 Limestone Street, Darra, 4076, QLD

APPROVED SIGNATORY

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PROTEST
CONSTRUCTION MATERIALS TESTING

Soil Compaction and Density Tests Report - Compaction Control

Client :	**Shadforths**	Report Number :	**SR/PTP/14690 - 14/1**
Client Address :	**99 Sandalwood Lane, Forest Glen, 4556, QLD**	Report Date :	**20/02/2025**
Project Name :	**Woodlinks Village - Stage 25**	Test Request :	-
Project Number :	**PTP/14690**	**Page 2 of 2**	
Location :	**Collingwood Park**		

Test Methods :	**AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1**

Sample Number :	S/285516
Date/s Tested :	03/02/2025 - 20/02/2025
Material Source :	Onsite
For use as :	General Fill
Test / Layer Depths :	175 / 200
Sampling Method :	AS1141.3.1 - cl10.1
Time :	14:50
Lot Number :	Lot 750
Location 1 :	-
Location 2 :	E 486090
Location 3 :	N 6944282
Location 4 :	0.4m Below Finish Level
Test Fraction (mm) :	< 19mm
Oversize Wet :	0%
Oversize Density - Dry (t/m³) :	-
Assigned MDR (Yes/No) :	No
MDR Sample Number :	S/285516
MDR Test Date(s) :	03/02/2025 - 20/02/2025
Compaction Type :	Hilf-Std
Soil Description :	Gravelly Sandy CLAY
MDR Test Results	
PCWD (t/m3) :	2.28
Moisture Variation :	1.0%
ADJ PCWD (t/m3) :	-
ADJ Moisture Variation :	-
Moisture Test Results :	
Field Moisture Content :	6.0%
Moisture Specification :	+/-2.0% of OMC
Variation from OMC :	**1.0% Dry of OMC**
Moisture Ratio :	N/A
Density Test Results	
Field Wet Density (t/m3) :	2.34
Density Specification :	95%
Wet Density Ratio :	**102.5%**

Remarks :	

NATA
WORLD RECOGNISED ACCREDITATION

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Accredited for Compliance with ISO/ IEC 17025 - Testing
Protest Engineering (Darra) Accreditation Number - 2851
Base Laboratory Site Number - 2844 - Darra

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PROTEST
CONSTRUCTION MATERIALS TESTING

Soil Compaction and Density Tests Report - Compaction Control

Client :	**Shadforths**	Report Number :	**SR/PTP/14690 - 15/1**
Client Address :	**99 Sandalwood Lane, Forest Glen, 4556, QLD**	Report Date :	**24/02/2025**
Project Name :	**Woodlinks Village - Stage 25**	Test Request :	-
Project Number :	**PTP/14690**	**Page 1 of 1**	
Location :	**Collingwood Park**		

Test Methods :	**AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1**

Sample Number :	S/287712	S/287713	S/287714	S/287715	S/287716	
Date/s Tested :	17/02/2025 - 24/02/2025	17/02/2025 - 24/02/2025	17/02/2025 - 24/02/2025	17/02/2025 - 24/02/2025	17/02/2025 - 24/02/2025	
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	
For use as :	General Fill	General Fill	General Fill	General Fill	General Fill	
Test / Layer Depths :	175 / 200	175 / 200	175 / 200	175 / 200	175 / 200	
Sampling Method :	AS1141.3.1 - cl10.1	AS1141.3.1 - cl10.1	AS1141.3.1 - cl10.1	AS1141.3.1 - cl10.1	AS1141.3.1 - cl10.1	
Time :	11:00	11:10	11:20	11:30	11:40	
Lot Number :	Lot 749	Lot 749	Lot 749	Lot 749	Lot 749	
Location 1 :	Lot 749	Lot 748	Lot 764	Lot 763	Lot 762	
Location 2 :	E 486088	E 486091	E 486093	E 486107	E 486118	
Location 3 :	N 6944271	N 6944257	N 6944358	N 6944358	N 6944357	
Location 4 :	Final Layer	Final Layer	Final Layer	Final Layer	Final Layer	
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	
Oversize Wet :	0%	0%	0%	0%	0%	
Oversize Density - Dry (t/m³) :	-	-	-	-	-	
Assigned MDR (Yes/No) :	No	No	No	No	No	
MDR Sample Number :	S/287712	S/287713	S/287714	S/287715	S/287716	
MDR Test Date(s) :	17/02/2025 - 24/02/2025	17/02/2025 - 24/02/2025	17/02/2025 - 24/02/2025	17/02/2025 - 24/02/2025	17/02/2025 - 24/02/2025	
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	
Soil Description :	SC - Gravelly Silty Clay - Yellow brown	SC - Gravelly Silty Clay - Yellow brown	SC - Gravelly Silty Clay - Yellow brown	SC - Gravelly Silty Clay - Yellow brown	SC - Gravelly Silty Clay - Yellow brown	
MDR Test Results						
PCWD (t/m3) :	2.47	2.43	2.38	2.27	2.29	
Moisture Variation :	0.0%	1.0%	0.5%	0.0%	0.0%	
ADJ PCWD (t/m3) :	-	-	-	-	-	
ADJ Moisture Variation :	-	-	-	-	-	
Moisture Test Results :						
Field Moisture Content :	8.0%	7.5%	8.5%	8.5%	9.0%	
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	
Variation from OMC :	**0.0% Dry of OMC**	**1.0% Dry of OMC**	**0.5% Dry of OMC**	**At OMC**	**0.0% Wet of OMC**	
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	
Density Test Results						
Field Wet Density (t/m3) :	2.50	2.42	2.27	2.17	2.20	
Density Specification :	95%	95%	95%	95%	95%	
Wet Density Ratio :	**101.0%**	**99.5%**	**95.0%**	**95.5%**	**96.0%**	

Remarks :	

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WORLD RECOGNISED ACCREDITATION

Note: The results contained in this report relate only to the item/s that were tested/sampled

Accredited for Compliance with ISO/ IEC 17025 - Testing
Protest Engineering (Darra) Accreditation Number - 2851
Base Laboratory Site Number - 2844 - Darra

Base Laboratory Address - 1-2/35 Limestone Street, Darra, 4076, QLD

APPROVED SIGNATORY

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Soil Compaction and Density Tests Report - Compaction Control

Client :	**Shadforths**	Report Number :	**SR/PTP/14690 - 16/1**
Client Address :	**99 Sandalwood Lane, Forest Glen, 4556, QLD**	Report Date :	**24/02/2025**
Project Name :	**Woodlinks Village - Stage 25**	Test Request :	-
Project Number :	**PTP/14690**	**Page 1 of 1**	
Location :	**Collingwood Park**		

Test Methods :	**AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1**

Sample Number :	S/287605	S/287606	S/287607	S/287608	S/287609	S/287610
Date/s Tested :	14/02/2025 - 24/02/2025	14/02/2025 - 24/02/2025	14/02/2025 - 24/02/2025	14/02/2025 - 24/02/2025	14/02/2025 - 24/02/2025	14/02/2025 - 24/02/2025
Material Source :	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
For use as :	General Fill	General Fill	General Fill	General Fill	General Fill	General Fill
Test / Layer Depths :	175 / 200	175 / 200	175 / 200	175 / 200	175 / 200	175 / 200
Sampling Method :	AS1141.3.1 - cl10.1	AS1141.3.1 - cl10.1	AS1141.3.1 - cl10.1	AS1141.3.1 - cl10.1	AS1141.3.1 - cl10.1	AS1141.3.1 - cl10.1
Time :	10:30	10:35	10:40	10:50	10:55	11:00
Lot Number :	-	-	-	-	-	-
Location 1 :	Lot 667	Lot 666	Lot 665	Lot 664	Lot 663	Lot 662
Location 2 :	E 486112	E 486121	E 486131	E 486140	E 483153	E 486165
Location 3 :	N 6944403	N 6944397	N 6944395	N 6944391	N 6944390	6944390
Location 4 :	Finish Level	Finish Level	Finish Level	Finish Level	Finish Level	Finish Level
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	0%	0%	0%	0%	0%	0%
Oversize Density - Dry (t/m³) :	-	-	-	-	-	-
Assigned MDR (Yes/No) :	No	No	No	No	No	No
MDR Sample Number :	S/287605	S/287606	S/287607	S/287608	S/287609	S/287610
MDR Test Date(s) :	14/02/2025 - 24/02/2025	14/02/2025 - 24/02/2025	14/02/2025 - 24/02/2025	14/02/2025 - 24/02/2025	14/02/2025 - 24/02/2025	14/02/2025 - 24/02/2025
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std
Soil Description :	Gravelly Sandy CLAY	Gravelly Sandy CLAY	Gravelly Sandy CLAY	Gravelly Sandy CLAY	Gravelly Sandy CLAY	Gravelly Sandy CLAY
MDR Test Results						
PCWD (t/m3) :	2.06	2.17	2.16	2.07	2.21	2.28
Moisture Variation :	0.5%	0.0%	0.5%	-0.5%	-2.0%	-1.0%
ADJ PCWD (t/m3) :	-	-	-	-	-	-
ADJ Moisture Variation :	-	-	-	-	-	-
Moisture Test Results :						
Field Moisture Content :	10.5%	10.5%	10.5%	11.0%	13.0%	12.5%
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC
Variation from OMC :	**0.5% Dry of OMC**	**At OMC**	**0.5% Dry of OMC**	**0.5% Wet of OMC**	**2.0% Wet of OMC**	**1.0% Wet of OMC**
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A
Density Test Results						
Field Wet Density (t/m3) :	1.95	2.19	2.08	2.02	2.17	2.38
Density Specification :	95%	95%	95%	95%	95%	95%
Wet Density Ratio :	**95.0%**	**101.0%**	**96.0%**	**97.5%**	**98.0%**	**104.5%**

Remarks :	

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Note: The results contained in this report relate only to the item/s that were tested/sampled

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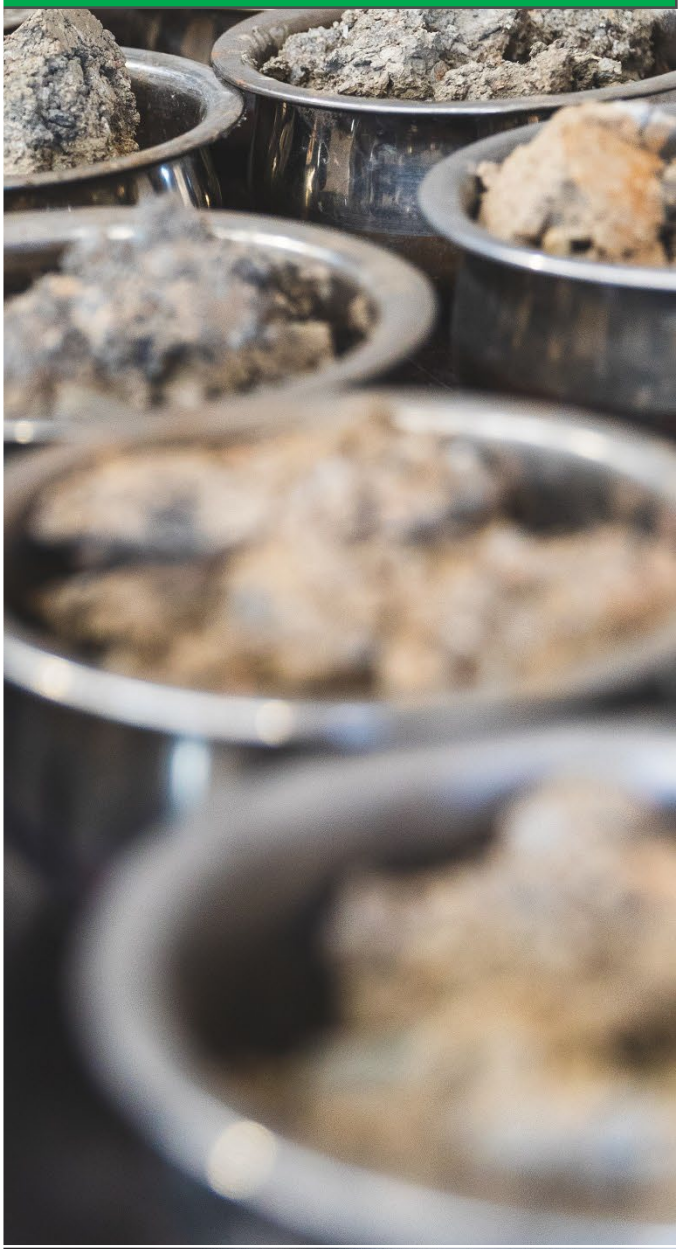

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