

LEVEL ONE COMPLIANCE REPORT

The Pocket - Stage 3

PREPARED BY:
PROTEST ENGINEERING

PREPARED FOR:
SHADFORTH CIVIL
PTP/09025 - Rev0 | 27 October 2022



NOTES

1. REFER TO STANDARD DRAWING (S/D) FOR ALL DETAILS, SPECIFICATIONS AND COMPONENTS.
2. REFER TO STANDARD DRAWING (S/D) FOR ALL DETAILS, SPECIFICATIONS AND COMPONENTS.
3. REFER TO STANDARD DRAWING (S/D) FOR ALL DETAILS, SPECIFICATIONS AND COMPONENTS.
4. REFER TO STANDARD DRAWING (S/D) FOR ALL DETAILS, SPECIFICATIONS AND COMPONENTS.
5. REFER TO STANDARD DRAWING (S/D) FOR ALL DETAILS, SPECIFICATIONS AND COMPONENTS.
6. REFER TO STANDARD DRAWING (S/D) FOR ALL DETAILS, SPECIFICATIONS AND COMPONENTS.



PROJECT CONSULTANTS	
NAME	NEW WARRHOSE DEVELOPMENT
TYPE	WATER MAIN
PROJECT NO.	
DATE	



Shadforth Civil
 99 Sandalwood Lane, Forest Glen
 QLD 4556

Project Number: PTP/ 09025
Letter Number: PTP/ – 0001 – Rev0
Project Name: The Pocket - Stage 3

Attention: Josh Cumming

Email: josh.cumming@shadcivil.com.au

Report on Level 1 Earthworks
Proposed Residential Development
1 Goss Drive, Collingwood Park

1. Introduction

This report summarises the results of inspection and testing provided by Protest Engineering (Protest) for the bulk earthworks as part of the The Pocket - Stage 3 project undertaken between 27th May 2022 to 3rd August 2022. The works were undertaken at the request of Shadforth 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.

Approximately 9000 m³ of fill was placed on site, Drawing No. 3002 RevB – *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 with a minimum of one test per 200 m³ placed for a *Type 2 – Large Scale Operation*.

Based on the information provided within the general notes (Drawing No. 3002 RevB – General Notes), the minimum relative compaction requirements were not specified, and therefore the criteria in AS3798, Table 5.1 was adopted. A summary of the criteria is summarised in Table 1.

Table 1: Test Request Compaction and Moisture Content Specification

Fill Types	Maximum Dry Density Ratio (%)	Optimum Moisture Content Variation (%)
Residential	>95%	±2% (Dry/Wet of OMC ⁽¹⁾)

(Notes: ⁽¹⁾ Optimum Moisture Content)

2. 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 test roll was performed on the natural soils using a pad foot roller and no noticeable movement was observed on the final pass.

Following successful proof rolling, filling operations comprised the placement and compaction of material obtained from Onsite source which were typically Sandy CLAY - Brown. Materials were placed onsite in uniform layers not exceeding 300 mm 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:

- 12t Dynapac Padfoot roller
- Excavator
- Dump truck

A total of Fifteen (15) field density ratio tests were undertaken at select locations 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 maximum dry density (standard compaction) outlined in test method AS1289.5.1.1.

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.

Table 2. Summary of Density Testing

Item	Compaction	Moisture Variation
No. of tests	15	15
Mean	96.2%	1.62% (Dry of OMC)

(Notes: ⁽¹⁾ Optimum Moisture Content)

3. Compliance

As far as it has been able to determine, it is our opinion that the bulk earthworks placed and compacted at The Pocket - Stage 3 by Shadforth Civil between 27th May 2022 to 3rd August 2022 comply with the above-mentioned specifications and can be considered as Level 1 'controlled' or structural fill.

4. 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 The Pocket - Stage 3 between 27th May 2022 to 3rd August 2022 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:

- I. This report only certifies the bulk earthworks activities supervised by Protest between 27th May 2022 to 3rd August 2022. Protest does not take responsibility for any other bulk earthworks activities that have occurred before or after these dates;
- II. The installation of services or any activities that may cause disruption of the compacted filling;
- III. The suitability of the filled land to support the proposed structures; and

IV. Any variation in filling depth of extent of areas that is not noted within this report or on the individual test report sheets.

5. Constraints

- Protest has prepared this report for the bulk earthworks at The Pocket - Stage 3. This report was produced for the sole use of Shadforth Civil. It should not be used by or depended upon for other projects or purposes on the same or other site or by a third party. 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 on-site 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.

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

Regards,

Written By:

Reviewed By:



Tom Hoskins

Technician

p | 0406 680 490

e | tom.hoskins@protestengineering.com



Nicholas Dobson

Branch Manager – Gold Coast

p | 0406 421 488

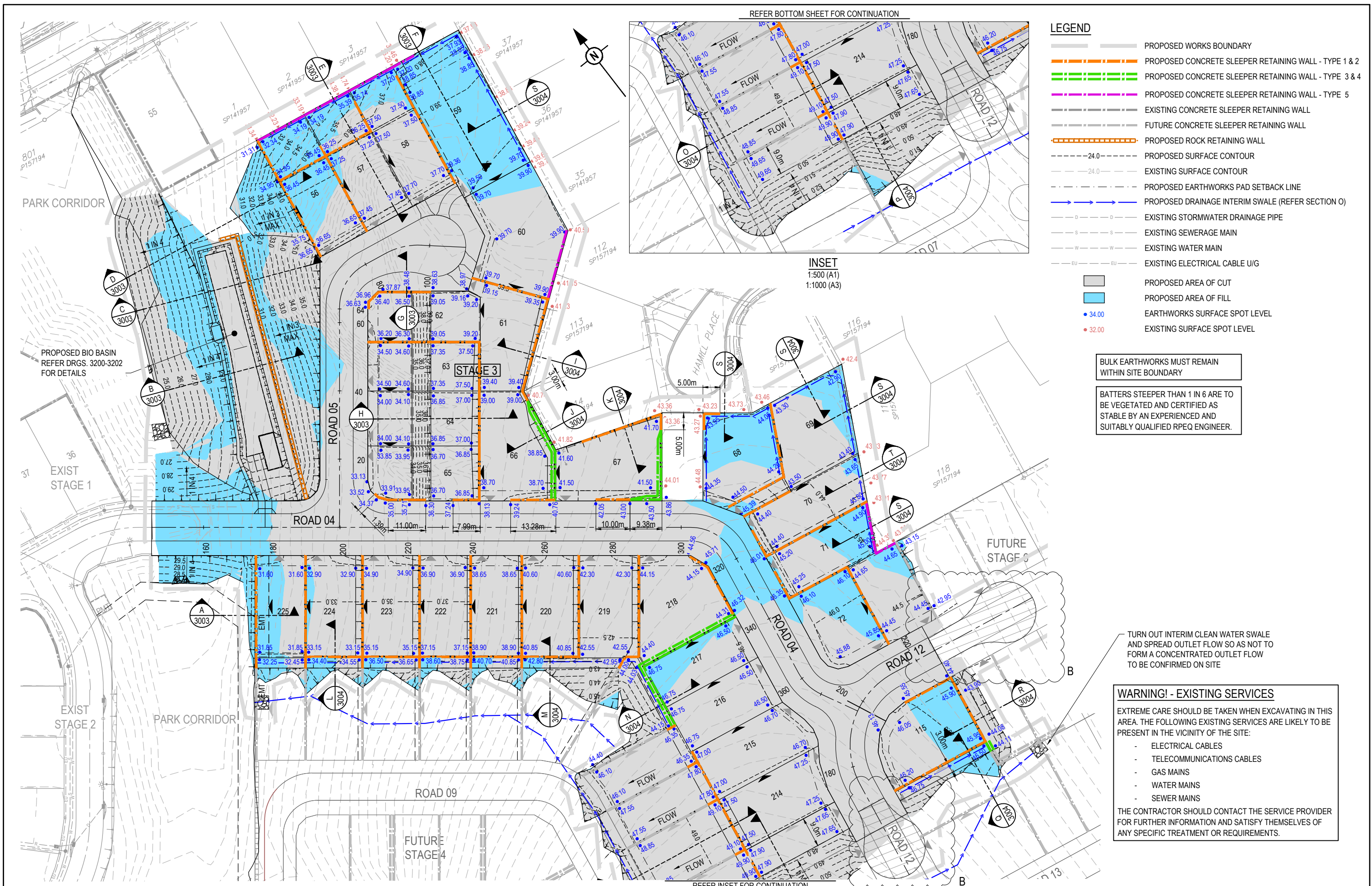
e | nick.dobson@protestengineering.com

- Attachments: 1. Site Plan;
 2. Density Reports;

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Attachment 1
Site Plan & Test Locations



REFER BOTTOM SHEET FOR CONTINUATION

LEGEND

- PROPOSED WORKS BOUNDARY
- PROPOSED CONCRETE SLEEPER RETAINING WALL - TYPE 1 & 2
- PROPOSED CONCRETE SLEEPER RETAINING WALL - TYPE 3 & 4
- PROPOSED CONCRETE SLEEPER RETAINING WALL - TYPE 5
- EXISTING CONCRETE SLEEPER RETAINING WALL
- FUTURE CONCRETE SLEEPER RETAINING WALL
- PROPOSED ROCK RETAINING WALL
- PROPOSED SURFACE CONTOUR
- EXISTING SURFACE CONTOUR
- PROPOSED EARTHWORKS PAD SETBACK LINE
- PROPOSED DRAINAGE INTERIM SWALE (REFER SECTION O)
- EXISTING STORMWATER DRAINAGE PIPE
- EXISTING SEWERAGE MAIN
- EXISTING WATER MAIN
- EXISTING ELECTRICAL CABLE U/G

PROPOSED AREA OF CUT
 PROPOSED AREA OF FILL
● 34.00 EARTHWORKS SURFACE SPOT LEVEL
● 32.00 EXISTING SURFACE SPOT LEVEL

INSET
1:500 (A1)
1:1000 (A3)

BULK EARTHWORKS MUST REMAIN WITHIN SITE BOUNDARY

BATTERS STEEPER THAN 1 IN 6 ARE TO BE VEGETATED AND CERTIFIED AS STABLE BY AN EXPERIENCED AND SUITABLY QUALIFIED RPEQ ENGINEER.

TURN OUT INTERIM CLEAN WATER SWALE AND SPREAD OUTLET FLOW SO AS NOT TO FORM A CONCENTRATED OUTLET FLOW TO BE CONFIRMED ON SITE

WARNING! - EXISTING SERVICES

EXTREME CARE SHOULD BE TAKEN WHEN EXCAVATING IN THIS AREA. THE FOLLOWING EXISTING SERVICES ARE LIKELY TO BE PRESENT IN THE VICINITY OF THE SITE:

- ELECTRICAL CABLES
- TELECOMMUNICATIONS CABLES
- GAS MAINS
- WATER MAINS
- SEWER MAINS

THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION AND SATISFY THEMSELVES OF ANY SPECIFIC TREATMENT OR REQUIREMENTS.

REV	DATE	DESIGN	DRAWN	ISSUED FOR CONSTRUCTION	REVISION DETAILS	DRAWN	STATUS		SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	18.01.22	DC	SC	ISSUED FOR CONSTRUCTION		DC	ISSUED FOR CONSTRUCTION		1:500 1:1000	HB QLD PTY LTD	THE POCKET - STAGE 3	BULK EARTHWORKS LAYOUT PLAN
B	16.03.22	DC	DC	TURNHEADS 1 & 2 ADDED		DC	DESIGN APPROVED TROY SCHULTZ RPEQ 20631			SAUNDERS HAVILL GROUP 1300 123 744	280 COLLINGWOOD DRIVE COLLINGWOOD PARK	PROJECT No. 20-0240
							FOR AND ON BEHALF OF PEAKURBAN PTY LTD					DRAWING No. 3002
												REVISION B

RECEIVED
By Document Control at 12:29 pm, May 04, 2022



ENQUIRIES@PEAKURBAN.COM.AU



- PROPOSED WORKS BOUNDARY
- PROPOSED CONCRETE SLEEPER RETAINING WALL - TYPE 1 & 2
- PROPOSED CONCRETE SLEEPER RETAINING WALL - TYPE 3 & 4
- PROPOSED CONCRETE SLEEPER RETAINING WALL - TYPE 5
- EXISTING CONCRETE SLEEPER RETAINING WALL
- FUTURE CONCRETE SLEEPER RETAINING WALL
- PROPOSED ROCK RETAINING WALL
- PROPOSED SURFACE CONTOUR
- EXISTING SURFACE CONTOUR
- PROPOSED EARTHWORKS FWD SETBACK LINE
- PROPOSED DRAINAGE INTERIM SHALE (REFER SECTION C)
- EXISTING STORMWATER DRAINAGE PIPE
- EXISTING SEWERAGE MAIN
- EXISTING WATER MAIN
- EXISTING ELECTRICAL CABLE UNO
- PROPOSED AREA OF CUT
- PROPOSED AREA OF FILL
- 34.00 EARTHWORKS SURFACE SPOT LEVEL
- 22.00 EXISTING SURFACE SPOT LEVEL

BULK EARTHWORKS MUST REMAIN WITHIN SITE BOUNDARY

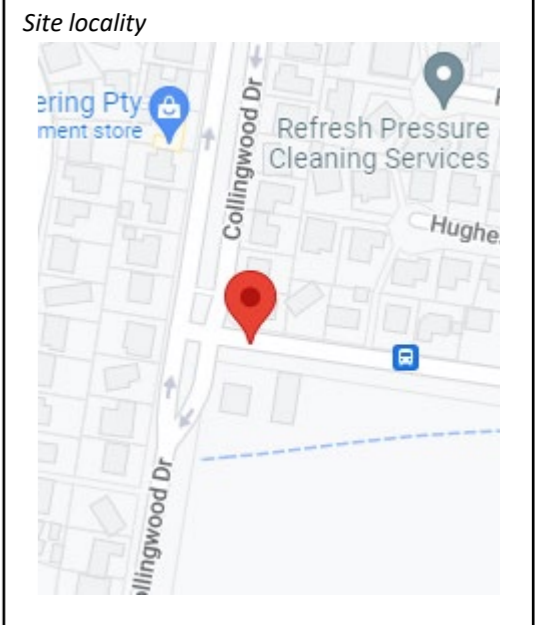
BATTERS STEEPER THAN 1 IN 5 ARE TO BE VEGETATED AND CERTIFIED AS STABLE BY AN EXPERIENCED AND SUITABLY QUALIFIED PROFESSIONAL ENGINEER.

TURN OUT INTERIM CLEAN WATER SHALE AND SPREAD OUTLET FLOW SO AS NOT TO FORM A CONCENTRATED OUTLET FLOW TO BE CONFIRMED ON SITE

WARNING! - EXISTING SERVICES
 EXTREME CARE SHOULD BE TAKEN WHEN EXCAVATING IN THIS AREA. THE FOLLOWING EXISTING SERVICES ARE LIKELY TO BE PRESENT IN THE VICINITY OF THE SITE:

- ELECTRICAL CABLES
- TELECOMMUNICATIONS CABLES
- GAS MAINS
- WATER MAINS
- SEWER MAINS

THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER



Legend

Approximate test location and number



Client: Shadforth Civil

Site: The Pocket Stage 3

Title: Test Location Plan



Date: 27/10/2022	Drawn: TH	Checked: ND
Project: PTP/09025	Drawing No: 1	Revision: 0

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Attachment 3
Density Reports

Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth			Report Number :	SR/PTP/09025 - 1/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	15/06/2022	
Project Name :	The Pocket - Stage 3, Collingwood Park			Test Request :	-	
Project Number :	PTP/09025			Page 1 of 1		
Location :	Collingwood Park					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.7.1,					
Sample Number :	S/138112	S/138113	S/138114			
Date Tested :	27/05/2022	27/05/2022	27/05/2022			
Material Source :	Onsite	Onsite	Onsite			
For use as :	General Fill	General Fill	General Fill			
Test / Layer Depths :	275 / 300	275 / 300	275 / 300			
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b			
Time :	09:40	09:50	10:00			
Lot Number :	-	-	-			
Location 1 :	E: 486254	E: 486267	E: 486253			
Location 2 :	N: 6944813	N: 6944817	N: 6944781			
Location 3 :	RL: 31.77	RL: 32.87	RL: 33.95			
Location 4 :	-	-	-			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm			
Oversize Wet :	7%	4%	8%			
Oversize Density - Dry (t/m ³) :	2.42	2.38	2.42			
Assigned MDR (Yes/No) :	No	No	No			
MDR Sample Number :	S/138112	S/138113	S/138114			
MDR Test Date :	1/06/2022	1/06/2022	1/06/2022			
	Standard	Standard	Standard			
Soil Description :	Gravelly Clayey SAND. Brown	Gravelly Sandy CLAY. Brown	Gravelly Sandy CLAY. Brown			
MDR Test Results						
PCWD (t/m ³) :	2.07	2.04	1.98			
Moisture Variation :	2.0%	0.0%	0.0%			
ADJ PCWD (t/m ³) :	2.09	2.05	2.01			
ADJ Moisture Variation :	2.0%	0.0%	0.0%			
Moisture Test Results						
Field Moisture Content :	9.0%	13.5%	12.5%			
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC			
Variation from OMC :	2.0% Dry of OMC	0.0% Wet of OMC	0.0% Wet of OMC			
Relative Moisture Ratio (Q250) :	-	-	-			
Moisture Ratio :	N/A	N/A	N/A			
Density Test Results						
Field Wet Density (t/m ³) :	2.02	1.98	1.95			
Density Specification :	95%	95%	95%			
Wet Density Ratio :	96.5%	96.5%	97.0%			
Characteristic Value (Q020) :	CV(min) = 96.4%	CV(max) = 96.9%	Mean = 96.7%	Std. Dev. = 0.3%	n = 3	k = 0.828
	-	-	-			
Soil Particle Density (APD) t/m ³ :						
Soil Particle Density (APD) Date :						
Remarks :						
 <p>Note: The results contained in this report relate only to the item/s that were tested/sampled Accredited for Compliance with ISO/ IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208</p>	APPROVED SIGNATORY  Samuel Bamford - Signatory					
	Document Number : RF1	Date : 3/05/2022				

Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth			Report Number :	SR/PTP/09025 - 22/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	27/10/2022	
Project Name :	The Pocket - Stage 3, Collingwood Park			Test Request :	-	
Project Number :	PTP/09025			Page 1 of 1		
Location :	Collingwood Park					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.7.1,					
Sample Number :	S/164487	S/164488	S/164489	S/164490	S/164491	S/164492
Date Tested :	13/10/2022	13/10/2022	13/10/2022	13/10/2022	13/10/2022	13/10/2022
Material Source :	Oniste	Oniste	Oniste	Oniste	Oniste	Oniste
For use as :	General Fill	General Fill	General Fill	General Fill	General Fill	General Fill
Test / Layer Depths :	150 / -	150 / -	150 / -	150 / -	150 / -	150 / -
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b
Time :	10:40	10:50	11:00	11:05	11:15	11:25
Lot Number :	Lot 56	Lot 56	Lot 56	Lot 57	Lot 57	Lot 57
Location 1 :	E: 6260.63	E: 6267.03	E: 6269.03	E: 6272.82	E: 6285.53	E: 6887.41
Location 2 :	N: 4801.52	N: 4815.10	N: 4824.09	N: 4796.28	N: 4812.56	N: 4820.30
Location 3 :	RL: 36.55	RL: 36.08	RL: 34.37	RL: 37.33	RL: 37.13	RL: 35.61
Location 4 :	-	-	-	-	-	-
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	5%	0%	0%	5%	8%	3%
Oversize Density - Dry (t/m ³) :	2.48	-	-	2.57	2.44	2.45
Assigned MDR (Yes/No) :	No	No	No	No	No	No
MDR Sample Number :	S/164487	S/164488	S/164489	S/164490	S/164491	S/164492
MDR Test Date :	18/10/2022	18/10/2022	18/10/2022	18/10/2022	18/10/2022	18/10/2022
Compaction Type :	Standard	Standard	Standard	Standard	Standard	Standard
Soil Description :	Gravelly Silty Clay - Light Brown	Gravelly Silty Clay - Light Brown	Gravelly Silty Clay - Light Brown	Gravelly Silty Clay - Light Brown	Gravelly Silty Clay - Light Brown	Gravelly Silty Clay - Light Brown
MDR Test Results						
PCWD (t/m ³) :	2.04	2.10	2.00	2.05	1.96	2.00
Moisture Variation :	1.5%	2.0%	2.0%	2.0%	2.0%	2.0%
ADJ PCWD (t/m ³) :	2.06	-	-	2.07	2.00	2.01
ADJ Moisture Variation :	1.5%	-	-	2.0%	1.5%	2.0%
Moisture Test Results						
Field Moisture Content :	8.5%	11.5%	9.5%	10.5%	10.5%	10.5%
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC
Variation from OMC :	1.5% Dry of OMC	2.0% Dry of OMC	2.0% Dry of OMC	2.0% Dry of OMC	1.5% Dry of OMC	2.0% Dry of OMC
Relative Moisture Ratio (Q250) :	-	-	-	-	-	-
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A
Density Test Results						
Field Wet Density (t/m ³) :	1.95	2.00	1.92	1.96	1.90	1.96
Density Specification :	95%	95%	95%	95%	95%	95%
Wet Density Ratio :	95.0%	95.0%	96.0%	95.0%	95.0%	97.5%
-						
Soil Particle Density (APD) t/m ³ :						
Soil Particle Density (APD) Date :						
Remarks :						
 <p>Note: The results contained in this report relate only to the item/s that were tested/sampled Accredited for Compliance with ISO/IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208</p>				<p>APPROVED SIGNATORY</p>  Nick Dobson - Signatory		

Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth	Report Number :	SR/PTP/09025 - 23/1
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD	Report Date :	27/10/2022
Project Name :	The Pocket - Stage 3, Collingwood Park	Test Request :	-
Project Number :	PTP/09025	Page 1 of 1	
Location :	Collingwood Park		

Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.7.1,					
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Sample Number :	S/164493	S/164494	S/164495	S/164496	S/164497	S/164498
Date Tested :	13/10/2022	13/10/2022	13/10/2022	13/10/2022	13/10/2022	13/10/2022
Material Source :	Oniste	Oniste	Oniste	Oniste	Oniste	Oniste
For use as :	General Fill	General Fill	General Fill	General Fill	General Fill	General Fill
Test / Layer Depths :	150 / -	150 / -	150 / -	150 / -	150 / -	150 / -

Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b
Time :	11:35	11:45	11:55	12:00	12:10	12:20
Lot Number :	Lot 38	Lot 38	Lot 38	Lot 59	Lot 59	Embankment
Location 1 :	E: 6296.28	E: 6998.31	E: 6295.76	E: 6305.43	E: 6302.90	E: 6253.67
Location 2 :	N: 4820.68	N: 4811.56	N: 4747.19	N: 4804.10	N: 4790.75	N: 4801.47
Location 3 :	RL: 36.58	RL: 37.36	RL: 37.58	RL: 39.00	RL: 39.20	RL: 35.06
Location 4 :	-	-	-	-	-	-

Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	6%	2%	2%	6%	5%	2%
Oversize Density - Dry (t/m ³) :	2.44	2.36	2.48	2.48	2.43	2.42
Assigned MDR (Yes/No) :	No	No	No	No	No	No
MDR Sample Number :	S/164493	S/164494	S/164495	S/164496	S/164497	S/164498
MDR Test Date :	18/10/2022	18/10/2022	18/10/2022	18/10/2022	18/10/2022	18/10/2022
Compaction Type :	Standard	Standard	Standard	Standard	Standard	Standard
Soil Description :	Gravelly Sandy Clay - Brown	Gravelly Sandy Clay - Brown	Gravelly Sandy Clay - Brown	Gravelly Sandy Clay - Brown	Gravelly Sandy Clay - Brown	Gravelly Sandy Clay - Brown



MDR Test Results						
PCWD (t/m ³) :	2.09	2.08	2.04	2.07	1.97	2.03
Moisture Variation :	2.0%	2.0%	1.5%	2.0%	2.0%	2.0%
ADJ PCWD (t/m ³) :	2.11	2.08	2.05	2.09	1.99	2.04
ADJ Moisture Variation :	2.0%	2.0%	1.5%	2.0%	2.0%	2.0%

Moisture Test Results :						
Field Moisture Content :	11.0%	11.5%	10.0%	11.0%	9.5%	9.5%
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 :	2.0% Dry of OMC	2.0% Dry of OMC	1.5% Dry of OMC	2.0% Dry of OMC	2.0% Dry of OMC	2.0% Dry of OMC
Relative Moisture Ratio (Q250) :	-	-	-	-	-	-
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	N/A

Density Test Results						
Field Wet Density (t/m ³) :	2.03	1.99	1.95	2.01	1.92	2.03
Density Specification :	95%	95%	95%	95%	95%	95%
Wet Density Ratio :	96.5%	95.5%	95.5%	96.0%	96.5%	99.5%

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

 <p style="font-size: small;">Note: The results contained in this report relate only to the item/s that were tested/sampled Accredited for Compliance with ISO/IEC 17025 - Testing Protest Engineering (Gold Coast) Accreditation Number - 19667 Base Laboratory Site Number - 22838 - Gold Coast Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208</p>	<p>APPROVED SIGNATORY</p>  <p>Nick Dobson - Signatory</p>
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