

LEVEL ONE COMPLIANCE REPORT

The Pocket Stage 4

PREPARED BY:
PROTEST ENGINEERING

PREPARED FOR:
SHADFORTH CIVIL

PTP/10578 - Rev0 | 22 March 2023



Shadforth Civil
99 Sandalwood Lane, Forest Glen
QLD 4556

Project Number: PTP/ 10578
Letter Number: PTP/ – 0001 – Rev0
Project Name: The Pocket Stage 4

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 4 project undertaken between 11th October 2022 to 20th December 2022. The works were undertaken at the request of Shadforth Civil.



Figure 1: Aerial Image of Site (Nearmap – 11/02/2023)

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.

Drawing No. 4002 Rev1 – *Bulk Earthworks Layout Plan* attached is the bulk earthworks layout 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 500 m³ placed for a *Type 1 – Large Scale Operation*.

Based on the information provided within the general notes (Drawing No. 214043-C100 – 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	Minimum Dry Density Ratio (%)
Residential	>95%

2. Geology



Figure 2: Based on the information provided by QGD (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 test roll was performed on the natural soils using a pad foot roller and no noticeable movement was observed on the final pass.

Filling operations comprised the placement and compaction of material obtained from Onsite source which were typically (SC) Sandy Clay - Pale Brown. Materials were placed onsite in uniform layers not exceeding 300 mm.

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:

- Water truck
- 12t Padfoot roller
- 25t Excavator
- D6 Dozer

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 AS1289.5.7.1.

A summary of the test results is presented in Table 2 with the individual reports attached and the approximate test locations are shown in the Attachments.

Table 2. Summary of Density Testing

Item	Compaction
No. of tests	15
Mean	101%

4. Compliance

As far as it has been able to determine, it is our opinion that the bulk earthworks placed and compacted at 1 Goss Drive, Collingwood Park by Shadforth Civil between 11th October 2022 to 20th December 2022 comply with the above-mentioned specifications and can be considered as Level 1 'controlled' or structural fill.

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 1 Goss Drive, Collingwood Park between 11th October 2022 to 20th December 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 11th October 2022 to 20th December 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.

6. Constraints

- Protest has prepared this report for the bulk earthworks at The Pocket Stage 4. 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.

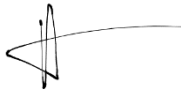
The Following should also be considered:

1. This report is not a SITE CLASS REPORT as per AS2870-2011 and not a Geotechnical Site Investigation report as per AS1726-2017.
2. 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 – Constructions”).
3. 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.
4. All compacted filling is subject to decompaction phenomenon.

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:



Tom Hoskins

Technician

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e | tom.hoskins@protestengineering.com

Reviewed By:



Nicholas Dobson

Branch Manager – Gold Coast

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- Attachments:
1. Site Images;
 2. Site Plan & Test Locations;
 3. Density Reports;

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Attachment 1

Site Images



**Site Image 1 – Strip to Natural
(11/10/2022)**



**Site Image 2 – Construction in Progress
(14/12/2022)**



**Site Image 3 – Continuation of Construction
(19/12/2022)**

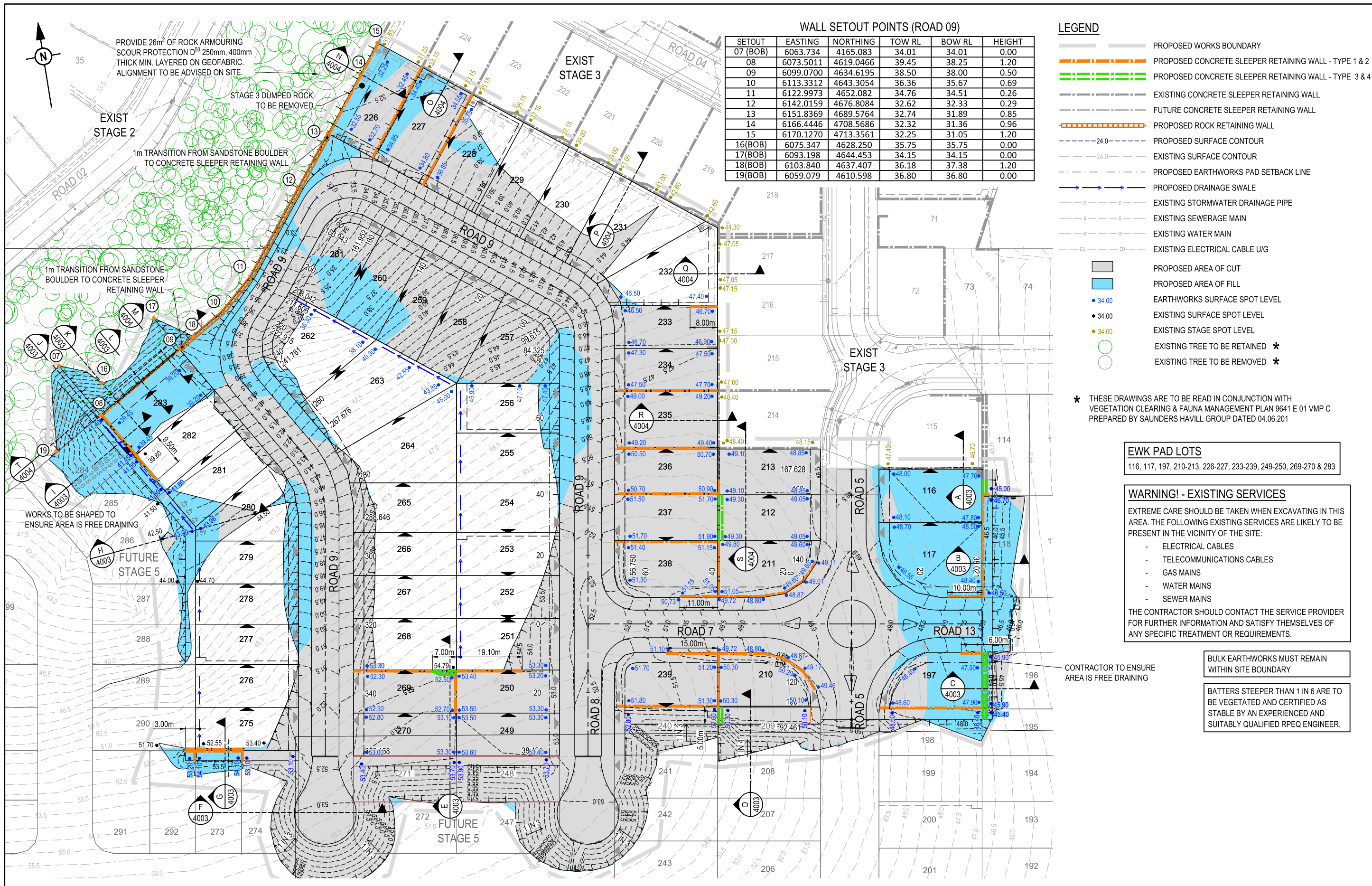


**Site Image 4 - Continuation of Construction
(20/12/2023)**

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Attachment 2
Site Plan & Test Locations



WALL SETOUT POINTS (ROAD 09)

SETOUT	EASTING	NORTHING	TOW RL	BOW RL	HEIGHT
07 (BOB)	6063.734	4165.083	34.01	34.01	0.00
08	6073.5011	4619.0466	39.45	38.25	1.20
09	6099.0700	4634.6195	38.50	38.00	0.50
10	6113.3312	4643.3054	36.36	35.67	0.69
11	6122.9973	4652.082	34.76	34.51	0.26
12	6142.0159	4676.8084	32.62	32.33	0.29
13	6151.8369	4689.5764	32.74	31.89	0.85
14	6166.4446	4708.5686	32.32	31.36	0.96
15	6170.1270	4713.3561	32.25	31.05	1.20
16(BOB)	6075.347	4628.250	35.75	35.75	0.00
17(BOB)	6093.198	4644.453	34.15	34.15	0.00
18(BOB)	6103.840	4637.407	36.18	37.38	1.20
19(BOB)	6059.079	4610.598	36.80	36.80	0.00

- LEGEND**
- PROPOSED WORKS BOUNDARY
 - PROPOSED CONCRETE SLEEPER RETAINING WALL - TYPE 1 & 2
 - PROPOSED CONCRETE SLEEPER RETAINING WALL - TYPE 3 & 4
 - EXISTING CONCRETE SLEEPER RETAINING WALL
 - FUTURE CONCRETE SLEEPER RETAINING WALL
 - PROPOSED ROCK RETAINING WALL
 - 24.0 — PROPOSED SURFACE CONTOUR
 - 24.0 — EXISTING SURFACE CONTOUR
 - PROPOSED EARTHWORKS PAD SETBACK LINE
 - PROPOSED DRAINAGE SWALE
 - 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
 - 34.00 EXISTING SURFACE SPOT LEVEL
 - 34.00 EXISTING STAGE SPOT LEVEL
 - EXISTING TREE TO BE RETAINED *
 - EXISTING TREE TO BE REMOVED *

* THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH VEGETATION CLEARING & FAUNA MANAGEMENT PLAN 9641 E 01 VMP C PREPARED BY SAUNDERS HAVILL GROUP DATED 04.06.201

EWK PAD LOTS
116, 117, 197, 210-213, 226-227, 233-239, 249-250, 269-270 & 283

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

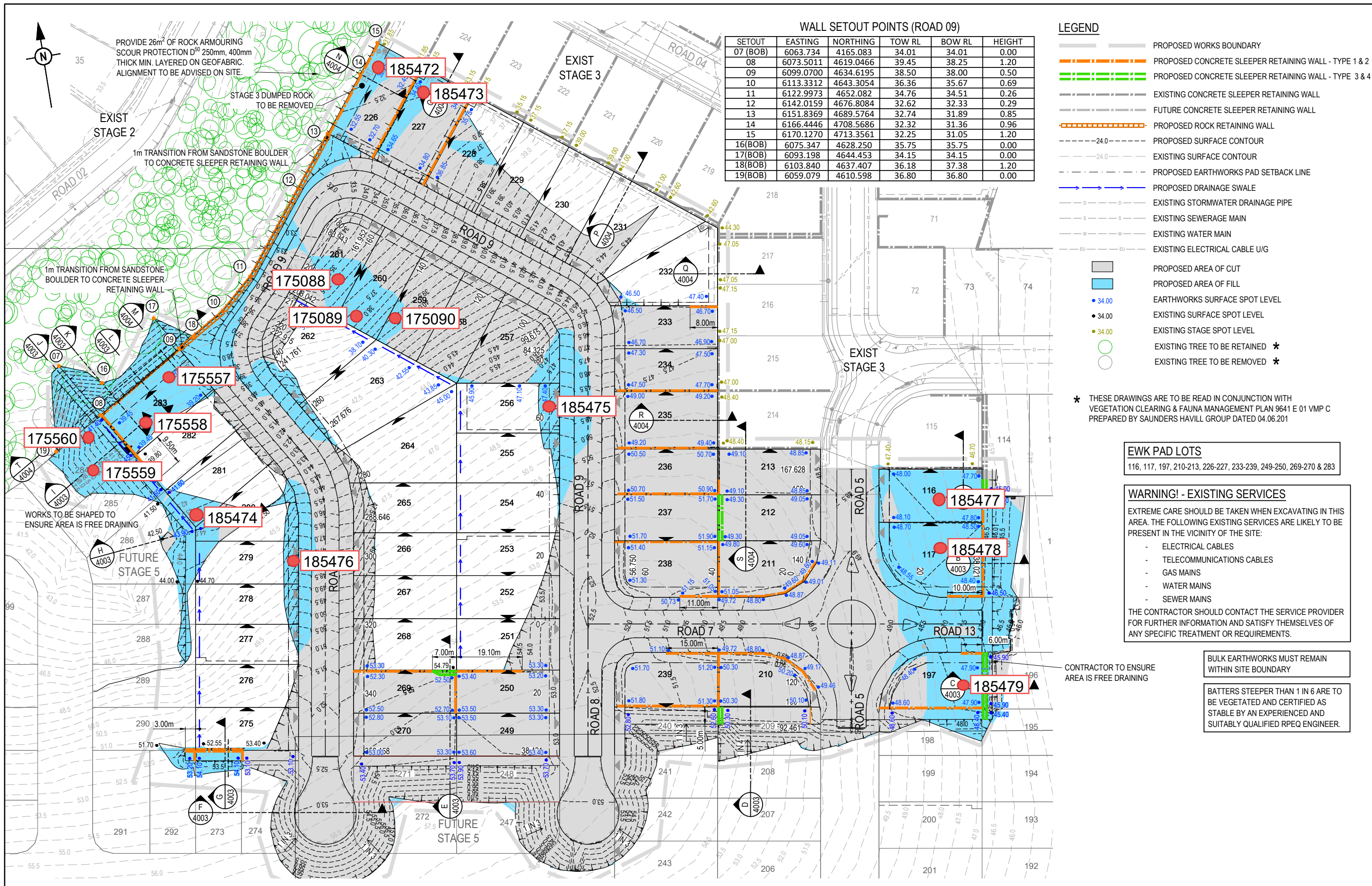
THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION AND SATISFY THEMSELVES OF ANY SPECIFIC TREATMENT OR REQUIREMENTS.

CONTRACTOR TO ENSURE AREA IS FREE DRAINING

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.

REV 1	DATE 01.07.22	DESIGN DC	DRAWN RR	ORIGINAL ISSUE	REVISION DETAILS	DRAWN DC	STATUS NOT FOR CONSTRUCTION	 Achieve more.	SCALE 1:500 1:1000	CLIENT HB QLD PTY LTD	PROJECT NAME THE POCKET - STAGE 4	DRAWING TITLE BULK EARTHWORKS LAYOUT PLAN	
						DESIGN DC	APPROVED TROY SCHULTZ RPEQ 20631		 SAUNDERS HAVILL GROUP 1300 123 744	280 COLLINGWOOD DRIVE COLLINGWOOD PARK	PROJECT No. 20-0240	DRAWING No. 4002	REVISION 1



WALL SETOUT POINTS (ROAD 09)

SETOUT	EASTING	NORTHING	TOW RL	BOW RL	HEIGHT
07 (BOB)	6063.734	4165.083	34.01	34.01	0.00
08	6073.5011	4619.0466	39.45	38.25	1.20
09	6099.0700	4634.6195	38.50	38.00	0.50
10	6113.3312	4643.3054	36.36	35.67	0.69
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 - EXISTING WATER MAIN
 - EXISTING ELECTRICAL CABLE U/G
 - PROPOSED AREA OF CUT
 - PROPOSED AREA OF FILL
 - 34.00 EARTHWORKS SURFACE SPOT LEVEL
 - 34.00 EXISTING SURFACE SPOT LEVEL
 - 34.00 EXISTING STAGE SPOT LEVEL
 - EXISTING TREE TO BE RETAINED *
 - EXISTING TREE TO BE REMOVED *

* THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH VEGETATION CLEARING & FAUNA MANAGEMENT PLAN 9641 E 01 VMP C PREPARED BY SAUNDERS HAVILL GROUP DATED 04.06.201

EWK PAD LOTS
116, 117, 197, 210-213, 226-227, 233-239, 249-250, 269-270 & 283

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- SEWER MAINS

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CONTRACTOR TO ENSURE AREA IS FREE DRAINING

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.



REV 1	DATE 01.07.22	DESIGN DC	DRAWN RR	REVISION DETAILS	DRAWN DC	STATUS	NOT FOR CONSTRUCTION	 Achieve more.	SCALE 1:500 1:1000	CLIENT HB QLD PTY LTD	PROJECT NAME THE POCKET - STAGE 4	DRAWING TITLE BULK EARTHWORKS LAYOUT PLAN
					DESIGN DC	APPROVED TROY SCHULTZ	RPEQ 20631					

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Attachment 3
Density Reports



Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth			Report Number :	SR/PTP/10578 - 4/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	20/02/2023	
Project Name :	The Pocket - Stage 4			Test Request :	-	
Project Number :	PTP/10578			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/175088	S/175089	S/175090			
Date Tested :	14/12/2022	14/12/2022	14/12/2022			
Material Source :	Onsite	Onsite	Onsite			
For use as :	General Fill	General Fill	General Fill			
Test / Layer Depths :	150 / -	150 / -	150 / -			
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b			
Time :	12:30	13:45	14:50			
Lot Number :	Lot 261	Lot 260	Lot 259			
Location 1 :	E: 6152.42	E: 6146.82	E: 6143.18			
Location 2 :	N: 4639.86	N: 4643.75	N: 4647.28			
Location 3 :	RL: 37.27	RL: 36.20	RL: 35.26			
Location 4 :	-	-	-			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm			
Oversize Wet :	5%	6%	6%			
Oversize Density - Dry (t/m ³) :	1.00	1.00	2.24			
Assigned MDR (Yes/No) :	No	No	No			
MDR Sample Number :	S/175088	S/175089	S/175090			
MDR Test Date :	27/01/2023	27/01/2023	31/01/2023			
Compaction Type :	Standard	Standard	Standard			
Soil Description :	Sandy Clay - Brown	Sandy Clay - Brown	Sandy Clay - Brown			
<i>MDR Test Results</i>						
PCWD (t/m ³) :	2.24	2.24	2.24			
Moisture Variation :	0.0%	0.5%	0.5%			
ADI PCWD (t/m ³) :	2.11	2.09	2.24			
ADI Moisture Variation :	0.0%	0.5%	0.5%			
<i>Moisture Test Results :</i>						
Field Moisture Content :	13.0%	13.5%	12.5%			
Moisture Specification :	-	-	-			
Variation from OMC :	0.0% Dry of OMC	0.5% Dry of OMC	0.5% Dry of OMC			
Relative Moisture Ratio (Q250) :	-	-	-			
Moisture Ratio :	N/A	N/A	N/A			
<i>Density Test Results</i>						
Field Wet Density (t/m ³) :	2.15	2.12	2.20			
Density Specification :	95%	95%	95%			
Wet Density Ratio :	102.0%	101.5%	98.5%			
	-	-	-			
Soil Particle Density (APD) t/m ³ :						
Soil Particle Density (APD) Date :						
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			APPROVED SIGNATORY  Nick Dobson - Signatory		
	Base Laboratory Address - 8/36 Blanck Street, ORMEAU, QLD 4208					



Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth				Report Number :	SR/PTP/10578 - 5/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD				Report Date :	1/03/2023	
Project Name :	The Pocket - Stage 4				Test Request :	-	
Project Number :	PTP/10578				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/175557	S/175558	S/175559	S/175560			
Date Tested :	19/12/2022	19/12/2022	19/12/2022	19/12/2022			
Material Source :	Onsite	Onsite	Onsite	Onsite			
For use as :	General Fill	General Fill	General Fill	General Fill			
Test / Layer Depths :	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			
Time :	10:00	10:30	11:00	11:30			
Lot Number :	Lot 283	Lot 283	Lot 284	Lot 284			
Location 1 :	E: 6091.711	E: 6098.129	E: 6084.201	E: 6077.125			
Location 2 :	N: 4623.607	N: 4626.330	N: 4621.307	N: 4613.048			
Location 3 :	RL: 39.349	RL: 39.240	RL: 39.341	RL: 39.433			
Location 4 :	-	-	-	-			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm			
OverSize Wet :	6%	0%	0%	0%			
OverSize Density - Dry (t/m ³) :	2.39	-	-	-			
Assigned MDR (Yes/No) :	No	No	No	No			
MDR Sample Number :	S/175557	S/175558	S/175559	S/175560			
MDR Test Date :	31/01/2023	31/01/2023	31/01/2023	31/01/2023			
Compaction Type :	Standard	Standard	Standard	Standard			
Soil Description :	Gravelly Sandy Clay - Brown	Sandy Clay - Brown	Sandy Clay - Brown	Sandy Clay - Brown			
<i>MDR Test Results</i>							
PCWD (t/m ³) :	1.85	1.88	1.87	1.84			
Moisture Variation :	-0.5%	0.5%	0.0%	0.5%			
ADJ PCWD (t/m ³) :	1.88	-	-	-			
ADJ Moisture Variation :	-0.5%	-	-	-			
<i>Moisture Test Results :</i>							
Field Moisture Content :	12.5%	13.5%	14.5%	13.5%			
Moisture Specification :	-	-	-	-			
Variation from OMC :	0.5% Wet of OMC	0.5% Dry of OMC	0.0% Dry of OMC	0.5% Dry of OMC			
Relative Moisture Ratio (Q250) :	-	-	-	-			
Moisture Ratio :	N/A	N/A	N/A	N/A			
<i>Density Test Results</i>							
Field Wet Density (t/m ³) :	1.79	1.78	1.78	1.84			
Density Specification :	95%	95%	95%	95%			
Wet Density Ratio :	95.5%	95.0%	95.0%	99.5%			
Soil Particle Density (APD) t/m ³ :							
Soil Particle Density (APD) Date :							
Remarks :							
 <p>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 style="text-align: center;">APPROVED SIGNATORY</p> <div style="text-align: center;">  Nick Dobson - Signatory </div>			

Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth			Report Number :	SR/PTP/10578 - 10/1	
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD			Report Date :	21/03/2023	
Project Name :	The Pocket - Stage 4			Test Request :	-	
Project Number :	PTP/10578			Page 1 of 2		
Location :	Collingwood Park					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.7.1,					
Sample Number :	S/185472	S/185473	S/185474	S/185475	S/185476	S/185477
Date Tested :	7/03/2023	7/03/2023	7/03/2023	7/03/2023	7/03/2023	7/03/2023
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 :	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 :	10:00	10:10	10:20	10:30	10:40	10:50
Lot Number :	226	227	281	256	279	116
Location 1 :	O/S NW CNR	O/S NW ONR	O/S SE CNR	O/S SE CNR	O/S SE CNR	Centre of Lot
Location 2 :	10m South	8m South	5m West	10m North	6m North	-
Location 3 :	3m East	3m East	4m North	2m West	2m West	-
Location 4 :	FL	FL	FL	FL	FL	FL
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm	< 19mm
Oversize Wet :	0%	0%	0%	0%	0%	0%
Oversize Density - Dry (t/m ³) :	-	-	-	-	-	-
Assigned MDR (Yes/No) :	No	No	No	No	No	No
MDR Sample Number :	S/185472	S/185473	S/185474	S/185475	S/185476	S/185477
MDR Test Date :	9/03/2023	9/03/2023	9/03/2023	9/03/2023	9/03/2023	9/03/2023
Compaction Type :	Standard	Standard	Standard	Standard	Standard	Standard
Soil Description :	Sandy Clay Bron	Sandy Clay Brown	Sandy Clay Brown	Sandy Clay Brown	Sandy Clay Brown	Sandy Clay Brown
MDR Test Results						
PCWD (t/m ³) :	2.06	2.07	2.06	2.05	2.04	2.06
Moisture Variation :	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%
ADJ PCWD (t/m ³) :	-	-	-	-	-	-
ADJ Moisture Variation :	-	-	-	-	-	-
Moisture Test Results						
Field Moisture Content :	8.5%	8.5%	8.0%	8.5%	8.0%	7.5%
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	2.5% Dry of OMC	2.5% 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) :	2.14	2.12	2.15	2.11	2.13	2.14
Density Specification :	95%	95%	95%	95%	95%	95%
Wet Density Ratio :	103.5%	102.5%	104.0%	103.5%	104.0%	104.0%
-						
Soil Particle Density (APD) t/m ³ :						
Soil Particle Density (APD) Date :						
Remarks :						
 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				APPROVED SIGNATORY  Nick Dobson - Signatory		

Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforth		Report Number :	SR/PTP/10578 - 10/1		
Client Address :	99 Sandalwood Lane, Forest Glen, 4556, QLD		Report Date :	21/03/2023		
Project Name :	The Pocket - Stage 4		Test Request :	-		
Project Number :	PTP/10578		Page 2 of 2			
Location :	Collingwood Park					
Test Methods :	AS1289.5.4.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.5.7.1,					
Sample Number :	S/185478	S/185479				
Date Tested :	7/03/2023	7/03/2023				
Material Source :	Onsite	Onsite				
For use as :	General Fill	General Fill				
Test / Layer Depths :	150 / 175	150 / 175				
Sampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b				
Time :	11:00	11:10				
Lot Number :	117	197				
Location 1 :	Centre of Lot	O/S SE CNR				
Location 2 :	-	10m North				
Location 3 :	-	10m West				
Location 4 :	FL	FL				
Test Fraction (mm) :	< 19mm	< 19mm				
Oversize Wet :	0%	0%				
Oversize Density - Dry (t/m ³) :	-	-				
Assigned MDR (Yes/No) :	No	No				
MDR Sample Number :	S/185478	S/185479				
MDR Test Date :	9/03/2023	9/03/2023				
Compaction Type :	Standard	Standard				
Soil Description :	Sandy Clay Brown	Sandy Clay Brown				
MDR Test Results						
PCWD (t/m ³) :	2.05	2.07				
Moisture Variation :	2.5%	2.5%				
ADJ PCWD (t/m ³) :	-	-				
ADJ Moisture Variation :	-	-				
Moisture Test Results						
Field Moisture Content :	8.0%	8.5%				
Moisture Specification :	-	-				
Variation from OMC :	2.5% Dry of OMC	2.5% Dry of OMC				
Relative Moisture Ratio (Q250) :	-	-				
Moisture Ratio :	N/A	N/A				
Density Test Results						
Field Wet Density (t/m ³) :	2.13	2.14				
Density Specification :	95%	95%				
Wet Density Ratio :	104.0%	103.5%				
Soil Particle Density (APD) t/m ³ :						
Soil Particle Density (APD) Date :						
Remarks :						
 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			APPROVED SIGNATORY  Nick Dobson - Signatory			