

## **REPORT DETAILS**

### **Unique Document Identification**

Item	Description
Document Title	Level 1 Earthworks Report
Project Number	PTP/14592
Document ID	PTP/14592 - 0001 - Rev0
Client	Shadforths Civil
Client Contact	Carlos Pinilla

### **Protest Office Details**

Item	Description			
Location	Gold Coast			
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### **Revision Details**

Revision No.	Date	Comments
0	11/04/2025	Final Report Issued

### **Document Approval**

Author Reviewed By

Tamara Taylor Laboratory Manager Assistant tamara.taylor@protestcmt.com.au Justin Taing Associate Geotechnical Engineer RPEQ 30087 Justin.taing@ptgconsulting.com.au

### 1 INTRODUCTION

This report summarises the results of inspection and testing provided by Protest CMT (Protest) for the bulk earthworks as part of the Deebing Springs Stage 1D project undertaken between 09/12/2024 to 17/03/2025. 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 05/11/2024)

Approximately 3,500m<sup>3</sup> of fill was placed on site, Drawing No. B3771EAO\_1D-EW01-RevC – *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<sup>3</sup> placed for a Type 1 - *Large Scale Operation*.

Based on the information provided, the minimum compaction requirements were specified as complying with AS3798-2007, Table 5.1 - 'Minimum Relative Compaction'. 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			
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 (Qa) Quaternary Aged formations. This formation comprises;

• Qa - Clay, silt, sand and gravel; flood-plain alluvium.



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: Proof rolling operations in progress - (12/12/2024)

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:

» Excavator

» Padfoot Roller

» Dozer

» Body Truck

Water Cart

» Loader

A total of twenty-two (22) 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

· acro zi carriniar j ci z circ		
Item		Moisture Variation
Number of tests	22	22
Mean	98.3%	0.5% (Dry of OMC)

(Note: OMC = Optimum Moisture Content)



Figure 4: Conditioning compacting operations in progress - (13/12/2024)



Figure 5: Strip filling operations in progress - (13/12/2024)

### **4 COMPLIANCE**

As far as it has been able to determine, it is our opinion that the bulk earthworks placed and compacted at Deebing Springs Stage 1D by Shadforths Civil between 09/12/2024 to 17/03/2025 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 Deebing Springs Stage 1D between 09/12/2024 to 17/03/2025 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 09/12/2024 to 17/03/2025. 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 Deebing Springs Stage 1D. 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.

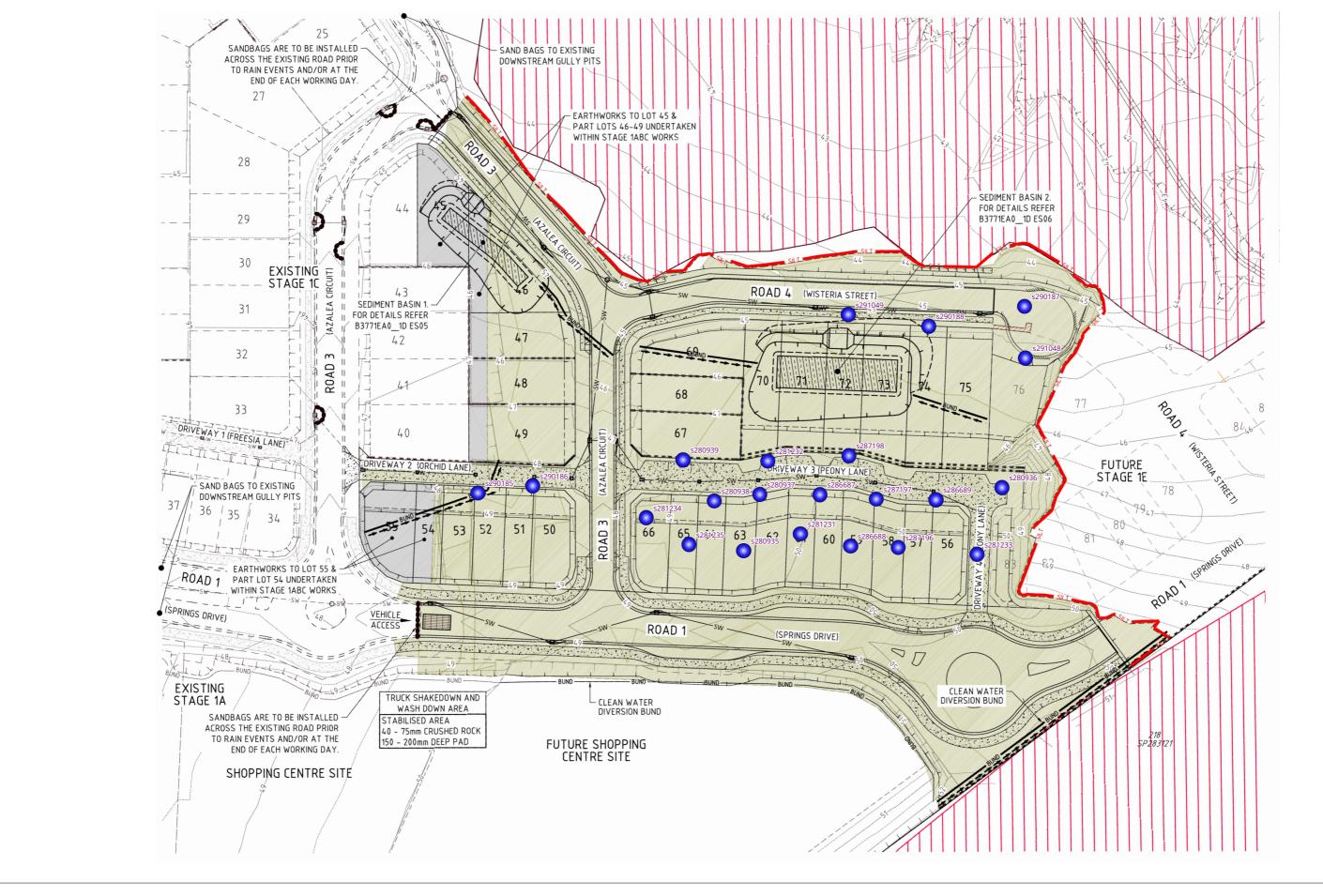
# 01



Appendix A
Site Plan & Testing
Locations











LEGEND



Map Description:	LEVEL 1 TEST LOCATIONS					
Client :	SHADFORTHS CIVIL	Site: 144 GRAMPIAN DRIVE, DEEBING HEIGHTS, QLD 43				HEIGHTS, QLD 4306
Project :	DEEBING SPRINGS - STAGE	1D				
Project No :	PTP/14592	[	Date :	01/04/2025	Scale :	Not to Scale

# 02



**Appendix B**Laboratory Test Reports







Client :	Shadforths			Rep	PTP/14592 - 2/1					
Client Address :	99 Sandalwood Lane, Fo	rest Glen, 4556, QLD		Rep	17/12/2024					
Project Name :	Deebing Springs Stage 1	D		Test Request :			-			
Project Number :	PTP/14592									
Location :	Deebing Heights					Page 1 of 1				
Test Methods :	AS1289.5.8.1, AS1289.5.	7.1, AS1289.2.1.1								
Sample Number :	S/281231	S/281232	S/281233	S/28123	4	S/281235				
Date/s Tested :	13/12/2024 - 17/12/2024	13/12/2024 - 17/12/2024	13/12/2024 - 17/12/2024	13/12/202 17/12/20		13/12/2024 - 17/12/2024				
Material Source :	Onsite	Onsite	Onsite	Onsite		Onsite				
For use as :	General Fill	General Fill	General Fill	General F	ill	General Fill				
Test / Layer Depths :	275 / 300	275 / 300	275 / 300	275 / 30	0	275 / 300				
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				
Time :	12:45	12:50	12:55	13:00		13:05				
Lot Number :	-	-	-	-		-				
Location 1 :	-	-	-	-		-				
Location 2 :	E 476328	E 476326	E 476317	E 47630	5	E 476299				
Location 3 :	N 6938480	N 6938490	N 6938494	N 693849		N 6938487				
Location 4 :	RL 41.2	RL 41.1	RL 41.6	RL 41.8		RL 42.0				
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19mn	1	< 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/281231	S/281232	S/281233	S/28123	4	S/281235				
MDR Test Date(s) :	13/12/2024 -	13/12/2024 -	13/12/2024 -	13/12/202		13/12/2024 -				
Compaction Type :	17/12/2024 Hilf-Std	17/12/2024 Hilf-Std	17/12/2024 Hilf-Std	17/12/20 Hilf-Sto		17/12/2024 Hilf-Std				
Soil Description :	Gravelly CLAY	Gravelly CLAY	Gravelly CLAY	Gravelly C		Gravelly CLAY				
	,	5.5.5., 52	5.5.5., 52	,		5.5.5., 55.				
MDR Test Results										
PCWD (t/m3):	2.08	1.98	1.93	1.94		1.99				
Moisture Variation :	-2.5%	-2.0%	0.0%	0.0%		0.0%				
ADJ PCWD (t/m3) :	-	-	-	-		-				
ADJ Moisture Variation :	-	-	-	-		-				
Moisture Test Results :										
Field Moisture Content :	20.0%	20.0%	18.0%	18.5%		18.5%				
Moisture Specification :	-	-	-	-		-				
Variation from OMC :	2.5% Wet of OMC	2.0% Wet of OMC	At OMC	0.0% Wet of	ОМС	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) :	2.01	1.94	1.92	1.92		1.99				
Density Specification :	95%	95%	95%	95%		95%				
Wet Density Ratio :	97.0%	98.0%	99.0%	99.5%		100.0%				
Remarks :							<u> </u>			
Note: The re	sults contained in this report relate	only to the item/s that were te	sted/sampled	Ī		APPROVED SIGNATOR	1			
Accredite	d for Compliance with ISO/	IEC 17025 - Testing								
	ngineering (Darra) Accredita						_			
Base Labo	ratory Site Number - 2844 -	vaild		_						
WORLD RECOGNISED Base Labo	ratory Address - 1-2/35 Lim	estone Street, Darra, 4076	5, QLD		Tir	mothy Watson - Signato	ory			
Document Number : RE01 HILE				Date : 14/11/2024						

Date: 20/12/2024



### Soil Compaction and Density Tests Report - Compaction Control

Client :	Shadforths			Report Num	nher : St	R/PTP/14592 - 3/1		
Client Address :	99 Sandalwood Lane, Fo	rest Glen 4556 OLD		Report Date	25/02/2025			
Project Name :	Deebing Springs Stage 1			Test Request :				
Project Number :	PTP/14592	D-141		Test neques	ot .			
Location :	Deebing Heights			Page 1 of 1				
Location .	Deebing neights							
Test Methods :	AS1289.5.8.1, AS1289.5.	7.1, AS1289.2.1.1						
Sample Number :	S/287196	S/287197	S/287198					
Date/s Tested :	13/02/2025 - 25/02/2025	13/02/2025 - 25/02/2025	13/02/2025 - 25/02/2025					
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 :	11:47	11:55	12:01					
Lot Number :	-	-	-					
Location 1 :	House Lots 1D	House Lots 1D	House Lots 1D					
Location 2 :	E 476336	E 476343	E 476347			1		
Location 3 :	N 6938455	N 6938469	N 6938472			1		
Location 4 :	Finisb Level	Finish Level	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/287196	S/287197	S/287198					
MDR Test Date(s) :	13/02/2025 - 25/02/2025	13/02/2025 - 25/02/2025	13/02/2025 - 25/02/2025					
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std					
Soil Description :	Sandy CLAY with GRAVEL	Sandy CLAY with GRAVEL	Sandy CLAY with GRAVEL					
MDR Test Results						1		
PCWD (t/m3) :	1.99	1.99	1.99					
Moisture Variation :	0.0%	0.0%	0.0%					
ADJ PCWD (t/m3) :								
ADJ Moisture Variation :	_	-	_					
Moisture Test Results :								
Field Moisture Content :	14.0%	13.0%	13.0%			1		
Moisture Specification :	+/-2.0% of OMC	+/-2.0% of OMC	+/-2.0% of OMC			1		
Variation from OMC :	0.0% Dry of OMC	0.0% Dry of OMC	0.0% Dry of OMC			1		
Moisture Ratio :	N/A	N/A	N/A			1		
Density Test Results		.,,,,				†		
Field Wet Density (t/m3) :	1.95	2.00	1.93			1		
Density Specification :	96%	96%	96%			1		
Wet Density Ratio :	98.0%	100.0%	97.0%					
Remarks :								
Note: The re	sults contained in this report relat	e only to the item/s that were to	ested/sampled		APPROVED SIGNATOR	RY		
	d for Compliance with ISO/		•					
NATA Protest Er	gineering (Darra) Accredita	tion Number - 2851						
	ratory Site Number - 2844 -	Darra						
Base Laboratory Site Number - 2844 - Darra  work of Acceptation  Base Laboratory Address - 1-2/35 Limestone Street, Darra, 4076, QLD								

Document Number : RF01\_HILF



Client :	Shadforths			Report Number	: SR,	/PTP/14592 - 4/1			
Client Address :	99 Sandalwood Lane, Fo			Report Date :		26/02/2025			
Project Name :	Deebing Springs Stage 1	D - LV1		Test Request :	Test Request :				
Project Number :	PTP/14592				Page 1 of 1				
Location :	Deebing Heights								
est Methods :	AS1289.5.8.1, AS1289.5.	7.1, AS1289.2.1.1							
Sample Number :	S/286687	S/286688	S/286689						
Date/s Tested :	10/02/2025 - 26/02/2025	10/02/2025 - 26/02/2025	10/02/2025 - 26/02/2025						
Material Source :	Onsite	Onsite	Onsite						
For use as :	General Fill	General Fill	General Fill						
est / Layer Depths :	275 / 300	275 / 300	275 / 300						
ampling Method :	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b	AS1289.1.2.1 - cl6.4b						
Fime :	07:13	07:18	07:23						
ot Number :	-	-	-						
Location 1 :	Stage 1D (House Lots)	Stage 1D (House Lots)	Stage 1D (House Lots)						
Location 2 :	E 476329	E 476339	E 476343						
Location 3 :	N 6938470	N 6938475	N 6938464						
Location 4 :	RL 47.7	RL 47.9	RL 47.5						
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm						
Oversize Wet :	0%	4%	0%						
Oversize Density - Dry (t/m³) :	-	2.72	-						
Assigned MDR (Yes/No):	No	No	No						
MDR Sample Number :	S/286687	S/286688	S/286689						
MDR Test Date(s) :	10/02/2025 - 26/02/2025	10/02/2025 - 26/02/2025	10/02/2025 - 26/02/2025						
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std						
Soil Description :	Sandy CLAY with GRAVEL	Sandy CLAY with GRAVEL	Sandy CLAY with GRAVEL						
MDR Test Results									
PCWD (t/m3) :	1.99	1.96	2.01						
Moisture Variation :	0.0%	2.5%	0.5%						
ADJ PCWD (t/m3) :	_	1.98	_						
ADJ Moisture Variation :	-	2.0%	-						
Moisture Test Results :	İ								
Field Moisture Content :	11.5%	9.5%	10.5%						
Moisture Specification :	-	-	-						
/ariation from OMC :	At OMC	2.0% Dry of OMC	0.5% Dry of OMC						
Moisture Ratio :	N/A	N/A	N/A						
Density Test Results		,	,						
rield Wet Density (t/m3) :	1.89	1.90	1.91						
Pensity Specification :	95%	95%	95%						
Vet Density Ratio :	95.0%	95.5%	95.0%						
Remarks :						<u> </u>			
	1			ADD	PROVED SIGNATOR	v			
	results contained in this report relat		ested/sampled	APP	JIGNATUK	•			
MATA	ed for Compliance with ISO/								
Protest	ngineering (Darra) Accredita oratory Site Number - 2844 -								

 Document Number:
 RF01\_HILF
 Date: 20/12/2024

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



Client :	Shadforths				Report Num	her: SR/	PTP/14592 - 5/2	
Client Address :	99 Sandalwood Lane, Fo	orest Glen, 4556, QLD			18/03/2025			
Project Name :	Deebing Springs Stage 1		Report Date Test Reques		-			
Project Number :	PTP/14592					·		
Location :	Deebing Heights					Page 1 of 1		
EDUCATION :	Second regres							
Test Methods :	AS1289.5.8.1, AS1289.5.7.1, AS1289.2.1.1							
Sample Number :	S/290185	S/290186	S/290187	S/29	0188			
Date/s Tested :	04/03/2025 - 18/03/2025	04/03/2025 - 18/03/2025	04/03/2025 - 18/03/2025	04/03/ 18/03	/2025 - /2025			
Material Source :	Onsite	Onsite	Onsite	On	site			
For use as :	General Fill	General Fill	General Fill	Gene	ral Fill			
Test / Layer Depths :	275 / 300	275 / 300	275 / 300	275	/ 300			
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	Sampling f in Earth Paver	acted)			
Time :	13:27	13:31	13:35	13	:40			
Lot Number :	-	-	-					
Location 1 :	E 476265	E 476277	E 476405	E 47	6383			
Location 2 :	N 6938541	N 6938531	N 6938469	N 693	38484			
Location 3 :	Finish Level	Finish Level	Finish Level	Finish	Level			
Location 4 :	-	-	-		-			
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm	< 19	mm			
Oversize Wet :	0%	0%	0%	0	%			
Oversize Density - Dry (t/m³) :	-	-	-		-			
Assigned MDR (Yes/No) :	No	No	No	N	lo			
MDR Sample Number :	S/290185	S/290186	S/290187	S/29	0188			
MDR Test Date(s) :	04/03/2025 -	04/03/2025 -	04/03/2025 -	04/03/	/2025 -			
Compaction Type :	18/03/2025 Hilf-Std	18/03/2025 Hilf-Std	18/03/2025 Hilf-Std		/2025 -Std			
Soil Description :	Sandy CLAY with GRAVEL	Sandy CLAY with GRAVEL	Sandy CLAY with GRAVEL		LAY with			
MDR Test Results		I.	I.					
PCWD (t/m3) :	2.13	2.16	2.17	2.	17			
Moisture Variation :	2.0%	2.0%	2.5%	2.5	5%			
ADJ PCWD (t/m3) :	-	-	-		-			
ADJ Moisture Variation :	-	-	-		-			
Moisture Test Results :								
Field Moisture Content :	14.0%	15.0%	14.5%	14.	0%			
Moisture Specification :	-	-	-					
Variation from OMC :	2.0% Dry of OMC	2.0% Dry of OMC	2.5% Dry of OMC		of OMC			
Moisture Ratio :	N/A	N/A	N/A	N,	/A			
Density Test Results								
Field Wet Density (t/m3) :	2.13	2.12	2.10		12			
Density Specification :	95%	95%	95%	95%				
Wet Density Ratio :	100.0%	98.5%	97.0%	98.0%				
Remarks :	* *	eport SR/PTP/14592 - 5 es used, BOSS update is						
Note: The res	ults contained in this report relate	only to the item/s that were tes	ted/sampled		-	APPROVED SIGNATORY	1	
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							_	
ACCREDITATION  Base Labor	ratory Address - 1-2/35 Lin	nestone Street, Darra, 407	76, QLD	Timothy Watson - Signatory				

ocument Number: RF01\_HILF Date: 20/12/20.



Client :	Shadforths			Report Nu		SR/PTP/14592 - 6/1		
Client Address :	99 Sandalwood Lane, Fo			Report Da	21/03/2025			
Project Name :	Deebing Springs Stage 1	D - LV1		Test Request : -				
Project Number :	PTP/14592			Page 1 of 1				
Location :	Deebing Heights							
Test Methods :	AS1289.5.8.1, AS1289.5	.7.1, AS1289.2.1.1						
Sample Number :	S/291048	S/291049						
Date/s Tested :	17/03/2025 - 21/03/2025	17/03/2025 - 21/03/2025						
Material Source :	Onsite	Onsite						
For use as :	General Fill	General Fill						
Test / Layer Depths :	125 / 150	125 / 150						
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 :	10:22	10:37						
	10.22							
Lot Number :	-	-						
Location 1 :	E 476395	E 476370						
Location 2 :	N 6938459	N 6938502						
Location 3 :	Finish Level	Finish Level						
Location 4 :	-	-						
Test Fraction (mm) :	< 19mm	< 19mm						
Oversize Wet :	0%	0%						
Oversize Density - Dry (t/m³) :	-	-						
MDR Sample Number :	S/291048	S/291049						
MDR Test Date(s):	17/03/2025 - 21/03/2025	17/03/2025 - 21/03/2025						
Compaction Type :	Hilf-Std	Hilf-Std						
Soil Description :	Sandy CLAY	Sandy CLAY						
MDR Test Results								
PCWD (t/m3):	2.10	2.12						
Moisture Variation :	2.0%	4.0%						
ADJ PCWD (t/m3) :	-	-						
ADJ Moisture Variation :	=	-						
Moisture Test Results :				1				
Field Moisture Content :	12.5%	12.0%						
Moisture Specification :	-	-						
Variation from OMC :	2.0% Dry of OMC	4.0% Dry of OMC						
Moisture Ratio :	N/A	N/A						
Density Test Results								
Field Wet Density (t/m3):	2.10	2.10						
Density Specification :	95%	95%						
Wet Density Ratio :	100.0%	99.0%						
Wet Density Ratio :	100.0%	99.0%						
Not	e: The results contained in this report relat	e only to the item/s that were te	ted/sampled		APPROVED	SIGNATORY		
Ac.	credited for Compliance with ISO/							
				_				
		ineering (Darra) Accreditation Number - 2851 atory Site Number - 2844 - Darra						
	Profest Engineering (Darra) Accreditation Number - 2851  Base Laboratory Site Number - 2844 - Darra							
МОВІ.О ЯЕСООМІЯЕD	se Laboratory Site Number - 2844 se Laboratory Address - 1-2/35 Lim		S. OLD			son - Signatory		



Client : Client Address :	Shadforths 99 Sandalwood Lane, Fo			Report Nui Report Dat	/PTP/14592 - 1/1 16/12/2024	
Project Name :	Deebing Springs Stage 1	D		Test Reque	en Fill - HILF (12/12/2024	
Project Number :	PTP/14592				Page 1 of 1	
Location :	Deebing Heights					
Test Methods :	AS1289.5.8.1, AS1289.5.	7.1, AS1289.2.1.1				
Sample Number :	S/280935	S/280936	S/280937	S/280938	S/280939	
Date/s Tested :	12/12/2024 - 16/12/2024	12/12/2024 - 16/12/2024	12/12/2024 - 16/12/2024	12/12/2024 - 16/12/2024	12/12/2024 - 16/12/2024	
Material Source :	In situ	In situ	In situ	In situ	In situ	
For use as :	General Fill	General Fill	General Fill	General Fill	General Fill	
Test / Layer Depths :	250 / 275	250 / 275	250 / 275	250 / 275	250 / 275	
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	
Time :	11:20	11:25	11:26	11:30	11:31	
Lot Number :	-	-	-	-	-	
Location 1 :	Stage 1D (House Lots)	Stage 1D (House Lote)	Stage 1D (House Lote)	Stage 1D (House Lots	) Stage 1D (House Lots)	
Location 2 :					1	
	E 476324	E 476323	E 476315	E 476308	E 476319	
Location 3 : Location 4 :	N 6938496 RL 37.2	N 6938484 RL 37.1	N 6938486 RL 37.4	N 6938493 RL 36.4	N 6938504 RL 37.1	
					1	
Test Fraction (mm) :	< 19mm	< 19mm	< 19mm 0%	< 19mm 0%	< 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/280935	S/280936	S/280937	S/280938	S/280939	
MDR Test Date(s) :	12/12/2024 - 16/12/2024	12/12/2024 - 16/12/2024	12/12/2024 - 16/12/2024	12/12/2024 - 16/12/2024	12/12/2024 - 16/12/2024	
Compaction Type :	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	Hilf-Std	
Soil Description :	GC - Gravelly CLAY - Dark Brown	GC - Gravelly CLAY - Dark Brown	GC - Gravelly CLAY - Dark Brown	GC - Gravelly CLAY - Dark Brown	GC - Gravelly CLAY - Dark Brown	
MDR Test Results	i					
PCWD (t/m3) :	2.01	2.00	1.98	2.02	2.03	
Moisture Variation :	-1.0%	1.0%	0.5%	0.0%	-2.0%	
ADJ PCWD (t/m3) :	-	-	-	-	_	
ADJ Moisture Variation :	-	-	-	-	-	
Moisture Test Results :						
Field Moisture Content :	15.0%	13.0%	14.0%	14.0%	16.0%	
Moisture Specification :	-	-	-	-	_	
Variation from OMC :	1.0% Wet of OMC	1.0% Dry of OMC	0.5% Dry of OMC	0.0% Dry of OMC	2.0% Wet of OMC	
Moisture Ratio :	N/A	N/A	N/A	N/A	N/A	
Density Test Results		,	,			
Field Wet Density (t/m3) :	2.00	1.97	1.94	2.04	2.02	
Density Specification :	95%	95%	95%	95%	95%	
Wet Density Ratio :	99.0%	99.0%	98.0%	100.5%	99.5%	
Remarks :						<u> </u>
Note: The res	ults contained in this report relate	only to the item/s that were tes	ited/sampled		APPROVED SIGNATOR	Y
	I for Compliance with ISO/					
	gineering (Darra) Accredita ratory Site Number - 2844 -				_	_
	ratory Address - 1-2/35 Lim		5, QLD	т	imothy Watson - Signat	ory
Document Number: RF01 HILF Date: 14/11/202						

Document Number : RF01\_HILF Date : 14/11/2024





