

# Level One Report

0328-The Waters, Ooralea Stage 7

5676/P/25-1

Prepared for Vassallo Constructions Pty Ltd  
15/09/2025



## Contact Information

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## Document Information

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## Document History

Version	Effective Date	Description of Revision	Prepared by:	Reviewed by:
0	15.09.2025	Completion of Level One	Lerrida Cameron	Craig Goss

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## Table of Contents

<b>Introduction</b>	<b>1</b>
<b>Specification Requirements</b>	<b>2</b>
<b>Site Works</b>	<b>2</b>
<b>Compaction Control Testing</b>	<b>2</b>
<b>Conclusion</b>	<b>2</b>

## Appendices

<b>Appendix A</b>	Site Visit Record
<b>Appendix B</b>	Field Density Test Results
<b>Appendix C</b>	Allotment Fill Map

## Tables

Table 1-1	Summary of field density test results	3
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## Introduction

Construction Sciences is the largest private provider of construction materials testing services across Australia. We have a total staff of over 600 staff in 48 permanent offices/laboratories.

We have provided QA testing services to some of the largest road and mining infrastructure projects in these states, as well as overseas.

Over the last 3 to 4 years, Construction Sciences has established more site laboratories for road, rail, mining, and other large infrastructure projects than any other company.

We benefit our clients with the following clear differentiators;

- > **Staff Mobilisation:** Construction Sciences' geographic expansion and mobility allow for teams to be available when required, and currently we have the lion's share of major projects in Australia.
- > **Quality Management:** Construction Sciences' purpose-built software, COMPLY provides our clients with confidence, by knowing project data is securely stored. COMPLY has a built-in secure audit trail and a fully tracked Quality system. We are also ISO9001 compliant and certified.
- > **Client Relationships:** We listen to your needs and respond with innovative solutions that are tailored for your business. We believe in building relationships with our staff and local community.
- > **Safety:** At Construction Sciences we embrace a 'safety' culture and it is a key consideration with every project. Currently we are over 2 years LTI (lost time injury) free.

Construction Sciences Pty Ltd was commissioned by **Vassallo Constructions Pty Ltd** to provide Level 1 inspection and testing services for the placement of fill at the residential development:

**PROJECT:** 0328-The Waters, Ooralea Stage 7

**ADDRESS:** 0328-The Waters, Ooralea Stage 7

The earthworks were carried out from 13/05/2025 to 23/07/2025.

## Specification Requirements

Filling was carried out in accordance with AS3798-2007 '*Guidelines on earthworks for commercial and residential developments*' and with the project specification prepared for the project.

The specification requirements were that all fill was to be placed and compacted in layers to a density ratio of not less than 95% of the maximum dry density as determined by AS1289.5.1.1 (standard compaction).

## Site Works

The area to be filled was stripped and proof rolled in accordance with the specification requirements. The fill material generally comprised of existing maters, material sourced onsite .

## Compaction Control Testing

Compaction control tests were carried out at regular intervals throughout the placement of fill in accordance with the minimum test frequency recommendations included in AS3798-2007 '*Guidelines on earthworks for commercial and residential developments*'. All test results are included in the Appendix B. A summary of the test results is included as Table 1. A total of eighty-seven (87) field density tests were carried out throughout the earthworks. The average density ratio was 99.01 % with a standard deviation of **2.3.83** %.

## Conclusion

It is considered that the placement of fill at 0328-The Waters, Ooralea Stage 7 was carried out in a controlled manner and the fill was compacted to a dry density ratio not less than the specified requirement. It is concluded that the fill may be deemed to be '*controlled fill*' in accordance with AS2870 – 2011 '*Residential Slabs & Footings*'.

CONSTRUCTION SCIENCES PTY LTD



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Table 1-1 Summary of field density test results - **0328-The Waters, Ooralea Stage 7**

Date	Level (1)	Test location	Density ratio (2)
13.05.2025	GST	Refer to Sketch	97.5
13.05.2025	GST	Refer to Sketch	96.0
13.05.2025	GST	Refer to Sketch	100.0
13.05.2025	GST	Refer to Sketch	98.0
13.05.2025	GST	Refer to sketch	99.5
13.05.2025	GST	Refer to Sketch	98.5
02.06.2025	RL:6.8	E:722532.1, n:7654009.3	98.5
02.06.2025	RL:6.8	E:722491.4, N:7654006.2	99.0
02.06.2025	RL:6.8	E:722446.1, N:7654001.2	99.0
02.06.2025	RL:6.8	E:722449.6, N:7654029.6	99.0
02.06.2025	RL:6.8	E:722493.3, N:7654033.4	99.0
02.06.2025	RL:6.7	E:722538.9, N:7654034.5	98.0
04.06.2025	RL:7.3	E:722442.1, N:7653952.6	98.0
04.06.2025	RL:7.2	E:722493.3, N:7653956.2	98.0
04.06.2025	RL:7.2	E:722548.5, N:7653967.1	98.5
04.06.2025	RL:7.1	E:722491.7, N:7653982.0	97.0
04.06.2025	RL:7.0	E:722448.3, N:7653980.2	99.5
04.06.2025	RL:7.0	E:722451.4, N:7654013.1	100.5
04.06.2025	RL:7.1	E:722506.7, N:7654007.6	98.5
04.06.2025	RL:6.9	E:722538.0, N:7654016.4	97.0
04.06.2025	RL:7.0	E:722496.7, N:7654022.3	98.0
04.06.2025	RL:7.1	E:722523.2, N:7654033.1	99.0
05.06.2025	RL:7.5	E:722572.4, N:7653966.3	99.0
05.06.2025	RL:7.4	E:722577.1, N:7653960.2	99.5
05.06.2025	RL:7.4	E:722472.7, N:7653957.4	96.0
05.06.2025	RL:7.3	E:722439.0, N:7653988.3	95.5
05.06.2025	RL:7.4	E:722480.7, N:7653998.3	98.5
05.06.2025	RL:7.3	E:722531.1, N:7654015.4	96.0
05.06.2025	RL:7.5	E:722510.6, N:7654022.2	95.5
05.06.2025	RL:7.3	E:722448.3, N:7654028.9	96.5
05.06.2025	RL:7.4	E:722485.7, N:7654037.6	98.0
05.06.2025	RL:7.3	E:722526.0, N:7654040.9	99.5
06.06.2025	RL:8.1	E:722538.1, N:7654004.6	100.0
06.06.2025	RL:8.2	E:722451.1, N:7654034.4	98.5
06.06.2025	RL:8.3	E:722451.5, N:7653989.1	97.5
06.06.2025	RL:8.5	E:722425.5, N:7654006.1	97.0
06.06.2025	RL:8.1	E:722437.4, N:7654032.6	99.0
06.06.2025	RL:7.9	E:722466.9, N:7654035.6	97.0
09.06.2025	RL:7.1	E:722479.1, N:7654136.9	102.5
09.06.2025	RL:7.1	E:722481.7, N:7654157.0	107.5

09.06.2025	RL:7.1	E:722500.2, N:7654155.4	103.0
09.06.2025	RL:7.2	E:722508.4, N:7654137.7	100.0
09.06.2025	RL:7.3	E:722497.14, N:7654119.5	101.5
09.06.2025	RL:7.3	E:722500.2, N:7654106.5	98.5
10.06.2025	RL:6.9	E:722571.6, N:7654101.2	99.5
10.06.2025	RL:6.9	E:722578.2, N:7650482.2	97.5
10.06.2025	RL:7.0	E:722568.6, N:7654060.7	98.5
10.06.2025	RL:6.9	E:722573.3, N:7654049.2	99.0
11.06.2025	RL:7.1	E:722563.4, N:7654107.7	100.0
11.06.2025	RL:7.2	E:722571.3, N:7654092.5	98.5
11.06.2025	RL:7.15	E:722562.6, N:7654082.1	98.5
11.06.2025	RL:7.1	E:722572.2, N:7654075.9	98.5
11.06.2025	RL:7.1	E:722570.5, N:7654056.2	100.0
11.06.2025	RL:7.15	E:722575.9, N:7654045.6	98.5
12.06.2025	RL:7.2	E:722527.5, N:7654130.6	105.0
12.06.2025	RL:7.3	E:722509.9, N:7654095.2	102.0
12.06.2025	RL:7.22	E:722485.1, N:7654076.2	104.0
12.06.2025	RL:7.2	E:722462.5, N:7654125.8	102.5
12.06.2025	RL:7.2	E:722457.6, N:7654142.9	101.0
12.06.2025	RL:7.2	E:722475.3, N:7654120.5	99.0
16.06.2025	RL:7.4	E:722528.1, N:7654109.6	97.5
16.06.2025	RL:7.49	E:722521.1, N:7654127.3	95.5
16.06.2025	RL:7.41	E:722483.7, N:7654101.5	103.5
16.06.2025	RL:7.4	E:722486.9, N:7654112.6	105.5
16.06.2025	RL:7.4	E:722446.4, N:7654115.3	98.0
16.06.2025	RL:7.4	E:722461.5, N:7654157.3	98.0
07.07.2025	RL:7.3	E:7654055.2, N:722451.1	104.5
07.07.2025	RL:7.2	E:7654081.3, N:722491.3	102.0
07.07.2025	RL:7.2	E:7654082.0, N:722521.8	101.0
07.07.2025	RL:7.2	E:7654045.2, N:722484.4	96.5
07.07.2025	RL:7.2	E:7654057.2, N:722504.7	97.0
07.07.2025	RL:7.2	E:7654046.4, N:722537.9	99.0
08.07.2025	RL:7.6	E:7654049.3, N:722439.7	96.0
08.07.2025	RL:7.6	E:7654037.2, N:722483.1	99.5
08.07.2025	RL:7.6	E:7654060.8, N:722482.0	96.0
08.07.2025	RL:7.5	E:7654088.7, N:722502.3	99.0
08.07.2025	RL:7.5	E:7654075.9, N:722528.1	102.5
08.07.2025	RL:7.5	E:7654046.6, N:722516.4	100.5
09.07.2025	RL:7.9	E:7654055.2, N:722452.1	97.0
09.07.2025	RL:7.9	E:7654058.6, N:722481.7	100.0
09.07.2025	RL:7.9	E:7654079.2, N:722488.3	102.0
09.07.2025	RL:8.0	E:7654059.8, N:722510.9	98.0

09.07.2025	RL:7.9	E:7654077.6, N:722519.9	98.5
09.07.2025	RL:7.9	E:7654058.8, N:722535.5	97.5
23.07.2025	GST	Lot 742, Centre of Lot	96.5
23.07.2025	GST	Lot 747, Centre of Lot	100.5
23.07.2025	GST	Lot 746, Centre of Lot	96.5

<b>No. of tests: 81</b>	0328-The Waters, Ooralea Stage 7	<b>Mean:</b>	99.01 %	<b>Standard Dev:</b>	2.3.83 %
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**Notes:**

1. Level of test positions determined relative to on site benchmark.
2. Standard laboratory compaction used, AS1289.5.1.1.

0328-The Waters,  
Ooralea Stage 7

APPENDIX

A

SITE VISIT RECORD

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1289
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	26/05/2025
Owner:	-	Arrival / Departure Time:	14:30 / 15:30
Constructor:	-	Superintendent:	-

Earthworks in current progress	Element:	
	Result:	Fill is being placed to the south of the proof roll area (

Materials testing	Element:	Refer to material, type, source, purpose of testing, sampling methods and locations, test types, sample reference numbers, results obtained, and to whom distributed.
	Result:	Material is Existing Insitu, AS AS1289.6.3.2 (Dynamic Cone Penrtrometer)

Field density testing	Element:	Refer to types of test, section of work to which tests apply, test locations and levels, test reference numbers, results obtained, and to whom distributed.
	Result:	

Laboratory compaction testing	Element:	Refer to test methods, location of sampling, sample reference numbers, results obtained, and to whom distributed.
	Result:	

Works meeting geotechnical requirements	Element:	Refer to work type (e.g. stripping, subgrade compaction), basis of assessment (e.g. inspection, test reference numbers, and the like), extent of works apparently complying and requirements met.
	Result:	

Works failing to meet geotechnical requirements	Element:	Refer to work type (e.g., stripping, subgrade compaction), basis of assessment (e.g., inspection, test reference numbers, and the like), extent of work apparently failing to comply, requirements not met, action taken (instructions issued, retests ordered, and the like).
	Result:	Non-Conforming area identified in the proof roll

Remarks	Element:	Include observations on works, site conditions, meetings or conversations on site, and the like.
	Result:	

Reviewed By: Craig Goss  	Corrective Action Required? -	Re-Inspection Date: -
	Corrective Action Details:	

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1289
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	28/05/2025
Owner:	-	Arrival / Departure Time:	00:00 / -
Constructor:	-	Superintendent:	-

Earthworks in current progress	Element:	
	Result:	Fill being placed to the south of the proof roll area (refer to map 5676/T/25-1289)

Materials testing	Element:	Refer to material, type, source, purpose of testing, sampling methods and locations, test types, sample reference numbers, results obtained, and to whom distributed.
	Result:	

Field density testing	Element:	Refer to types of test, section of work to which tests apply, test locations and levels, test reference numbers, results obtained, and to whom distributed.
	Result:	

Laboratory compaction testing	Element:	Refer to test methods, location of sampling, sample reference numbers, results obtained, and to whom distributed.
	Result:	

Works meeting geotechnical requirements	Element:	Refer to work type (e.g. stripping, subgrade compaction), basis of assessment (e.g. inspection, test reference numbers, and the like), extent of works apparently complying and requirements met.
	Result:	Majority of the area presented for proof roll passed. a small section along the northern edge failed. Refer to map 5676/T/25-1289-2

Works failing to meet geotechnical requirements	Element:	Refer to work type (e.g., stripping, subgrade compaction), basis of assessment (e.g., inspection, test reference numbers, and the like), extent of work apparently failing to comply, requirements not met, action taken (instructions issued, retests ordered, and the like).
	Result:	The failed section identified in the proof roll will have to be reworked to adjust the moisture condition. this will allow this to be re-proofrolled and likely pass

Remarks	Element:	Include observations on works, site conditions, meetings or conversations on site, and the like.
	Result:	

Reviewed By: Craig Goss  	Corrective Action Required? -	Re-Inspection Date: -
	Corrective Action Details:	

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1289
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	28/05/2025
Owner:	-	Arrival / Departure Time:	00:00 / -
Constructor:	-	Superintendent:	-

Image Description:



Image Description:



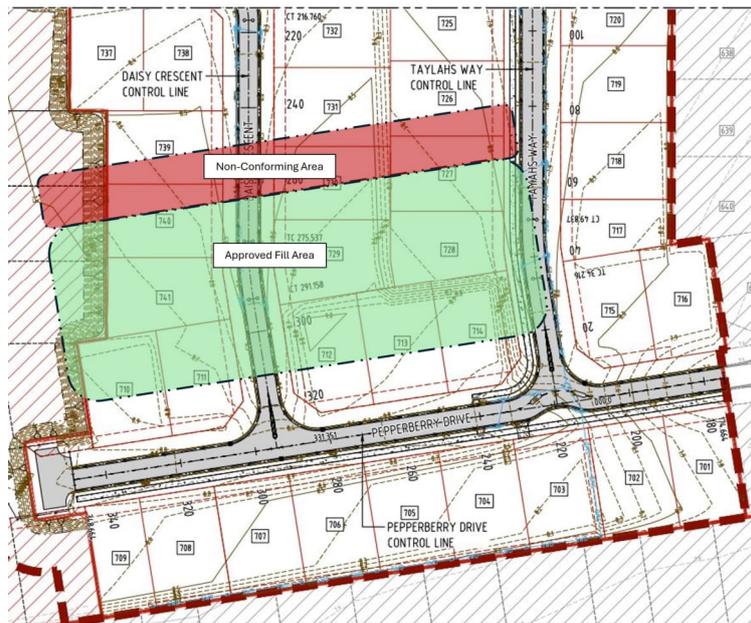
Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
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Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1289
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	28/05/2025
Owner:	-	Arrival / Departure Time:	00:00 / -
Constructor:	-	Superintendent:	-

Image Description:

Proposed Fill Area



Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
					

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1410
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	2/06/2025
Owner:	-	Arrival / Departure Time:	08:00 / 09:00
Constructor:	-	Superintendent:	-

Earthworks in current progress	Element:	
	Result:	2 x CAT 623F Elevated Scraper's placing Fill Material in approved Section. 1 x CAT 825C Compactor is levelling and compacting the Fill Material. 1 x CAT 140M Grader is levelling out Fill Material in the approved section. 1 x Water Cart is supplying the Fill Area with sufficient moisture treatment to achieve the required compaction.

Materials testing	Element:	Refer to material, type, source, purpose of testing, sampling methods and locations, test types, sample reference numbers, results obtained, and to whom distributed.
	Result:	

Field density testing	Element:	Refer to types of test, section of work to which tests apply, test locations and levels, test reference numbers, results obtained, and to whom distributed.
	Result:	Compaction testing carried out on stripped surface GST Section 2. 6 x AS1289.5.8.1 (Field Density) 5676/T/25-1410 Sample 5676/S/25-6090 5676/T/25-1410 Sample 5676/S/25-6091 5676/T/25-1410 Sample 5676/S/25-6092 5676/T/25-1410 Sample 5676/S/25-6093 5676/T/25-1410 Sample 5676/S/25-6094 5676/T/25-1410 Sample 5676/S/25-6095

Laboratory compaction testing	Element:	Refer to test methods, location of sampling, sample reference numbers, results obtained, and to whom distributed.
	Result:	Laboratory testing carried out. 6 x AS1289.5.7.1 (Hilf Density Ratio) 5676/T/25-1410 Sample 5676/S/25-6090 5676/T/25-1410 Sample 5676/S/25-6091 5676/T/25-1410 Sample 5676/S/25-6092 5676/T/25-1410 Sample 5676/S/25-6093 5676/T/25-1410 Sample 5676/S/25-6094 5676/T/25-1410 Sample 5676/S/25-6095

Works meeting geotechnical requirements	Element:	Refer to work type (e.g. stripping, subgrade compaction), basis of assessment (e.g. inspection, test reference numbers, and the like), extent of works apparently complying and requirements met.
	Result:	

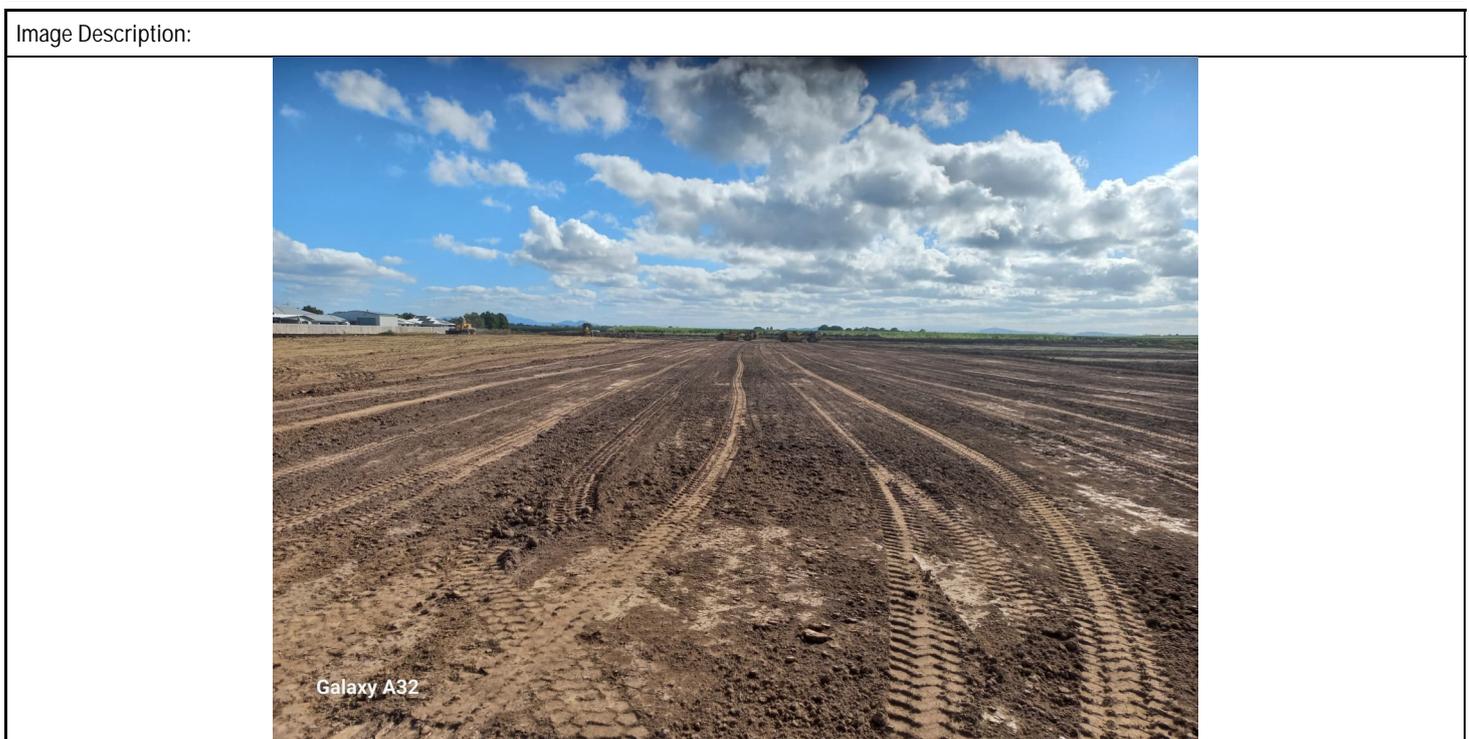
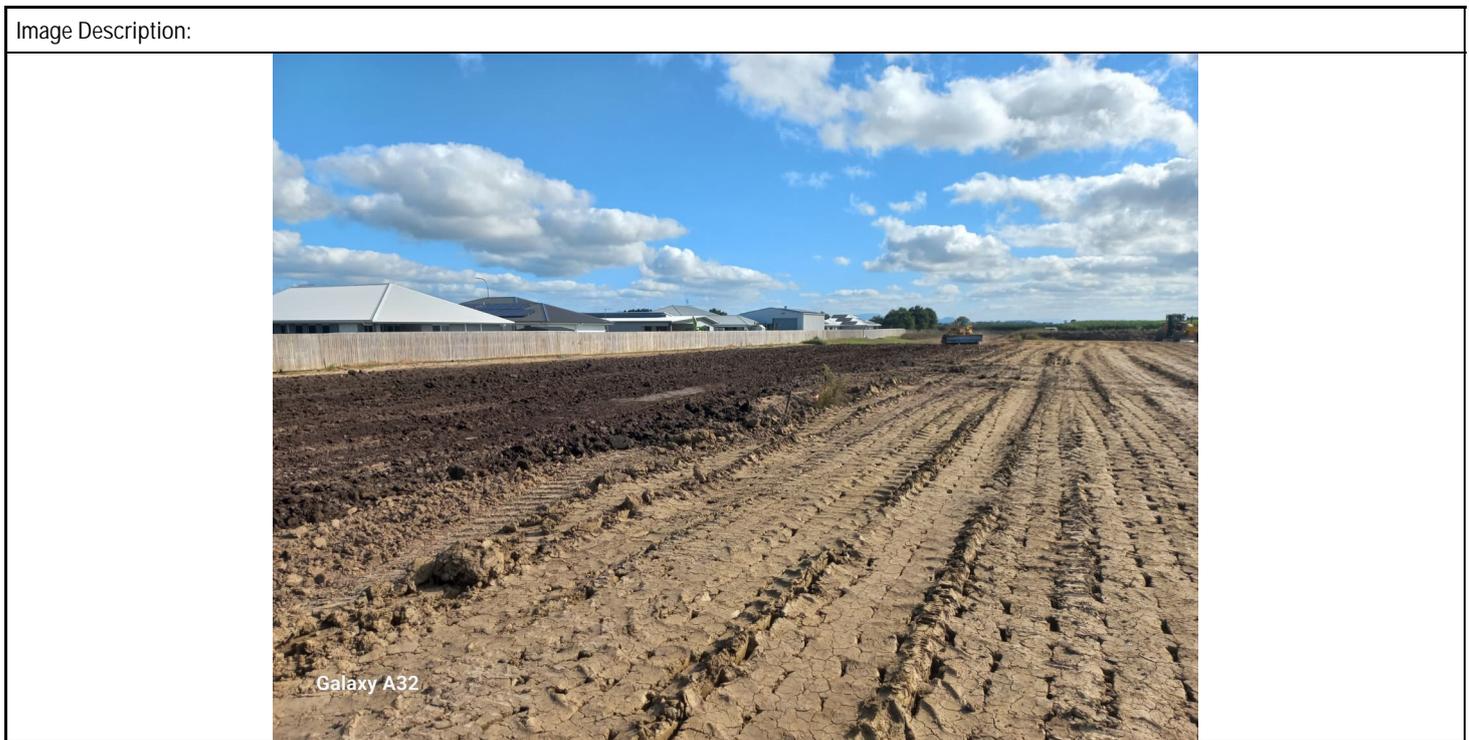
Works failing to meet geotechnical requirements	Element:	Refer to work type (e.g., stripping, subgrade compaction), basis of assessment (e.g., inspection, test reference numbers, and the like), extent of work apparently failing to comply, requirements not met, action taken (instructions issued, retests ordered, and the like).
	Result:	

Remarks	Element:	Include observations on works, site conditions, meetings or conversations on site, and the like.
	Result:	

Reviewed By: Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
	Corrective Action Details:			



Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1410
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	2/06/2025
Owner:	-	Arrival / Departure Time:	08:00 / 09:00
Constructor:	-	Superintendent:	-



Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
					

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1410
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	2/06/2025
Owner:	-	Arrival / Departure Time:	08:00 / 09:00
Constructor:	-	Superintendent:	-

Image Description:



Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
					

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1411
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	4/06/2025
Owner:	-	Arrival / Departure Time:	00:00 / -
Constructor:	-	Superintendent:	-

Earthworks in current progress	Element:	
	Result:	2 x CAT 623F Elevated Scraper's placing Fill Material from onsite borrow pit in approved Section. 1 x CAT 825C Compactor is levelling and compacting the Fill Material. 1 x CAT 140M Grader is levelling out Fill Material in the approved section. 1 x Water Cart is supplying the Fill Area with sufficient moisture treatment to achieve the required compaction.

Materials testing	Element:	Refer to material, type, source, purpose of testing, sampling methods and locations, test types, sample reference numbers, results obtained, and to whom distributed.
	Result:	

Field density testing	Element:	Refer to types of test, section of work to which tests apply, test locations and levels, test reference numbers, results obtained, and to whom distributed.
	Result:	Compaction testing carried out on Layer 1 of Fill Material in Approved Section 2. 10 x AS1289.5.8.1 (Field Density) 5676/T/25-1411 Sample 5676/S/25-6096 5676/T/25-1411 Sample 5676/S/25-6097 5676/T/25-1411 Sample 5676/S/25-6098 5676/T/25-1411 Sample 5676/S/25-6099 5676/T/25-1411 Sample 5676/S/25-6100 5676/T/25-1411 Sample 5676/S/25-6101 5676/T/25-1411 Sample 5676/S/25-6102 5676/T/25-1411 Sample 5676/S/25-6103 5676/T/25-1411 Sample 5676/S/25-6104 5676/T/25-1411 Sample 5676/S/25-6105

Laboratory compaction testing	Element:	Refer to test methods, location of sampling, sample reference numbers, results obtained, and to whom distributed.
	Result:	Laboratory testing carried out. 10 x AS1289.5.7.1 (Hilf Density Ratio) 5676/T/25-1411 Sample 5676/S/25-6096 5676/T/25-1411 Sample 5676/S/25-6097 5676/T/25-1411 Sample 5676/S/25-6098 5676/T/25-1411 Sample 5676/S/25-6099 5676/T/25-1411 Sample 5676/S/25-6100 5676/T/25-1411 Sample 5676/S/25-6101 5676/T/25-1411 Sample 5676/S/25-6102 5676/T/25-1411 Sample 5676/S/25-6103 5676/T/25-1411 Sample 5676/S/25-6104 5676/T/25-1411 Sample 5676/S/25-6105

Works meeting geotechnical requirements	Element:	Refer to work type (e.g. stripping, subgrade compaction), basis of assessment (e.g. inspection, test reference numbers, and the like), extent of works apparently complying and requirements met.
	Result:	

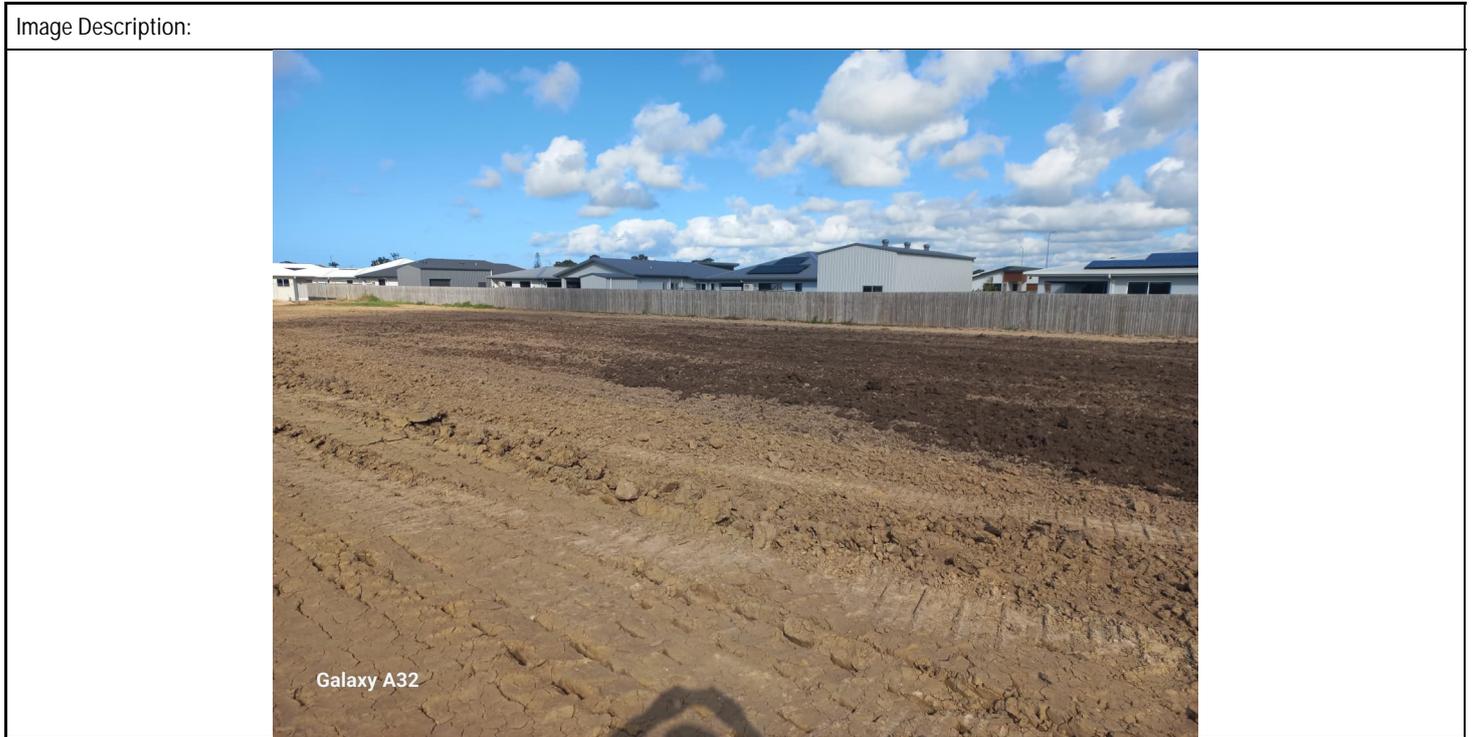
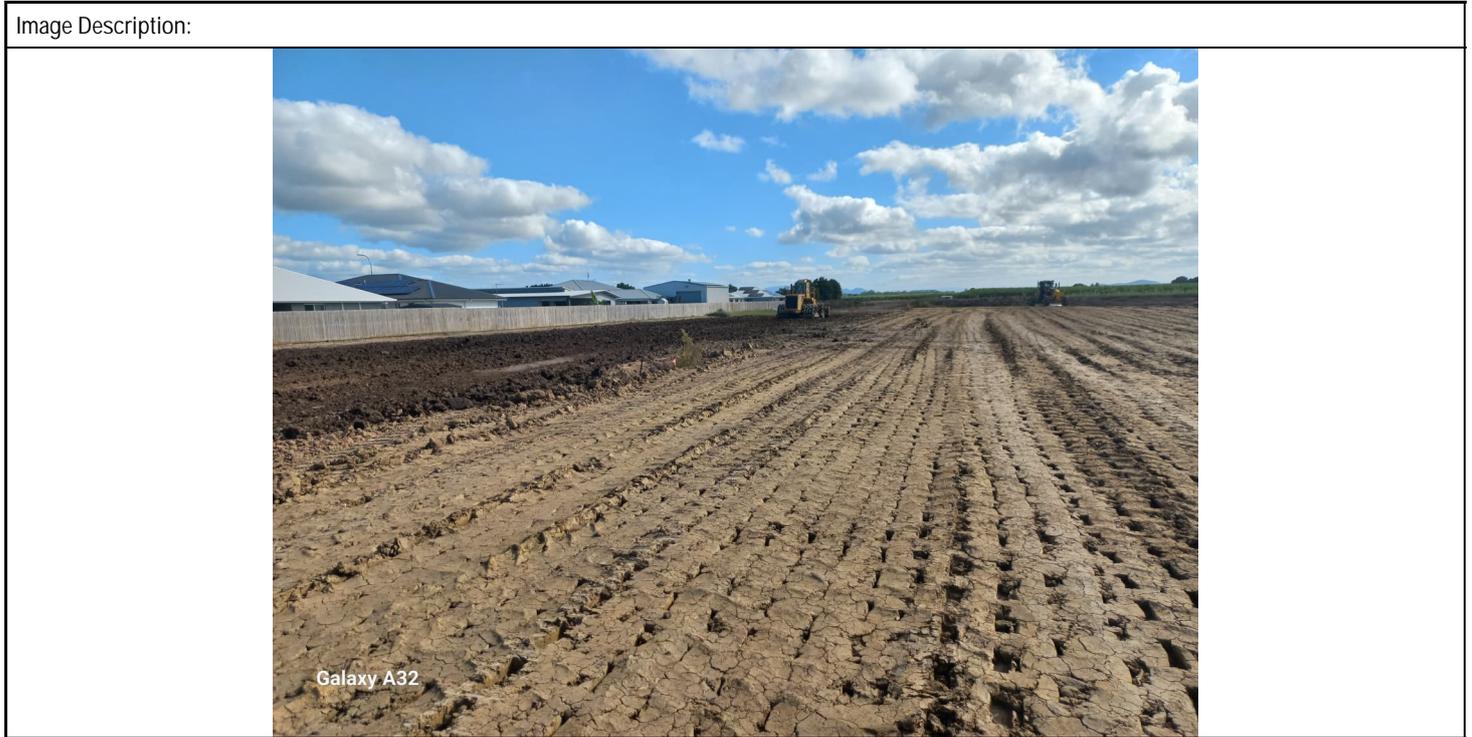
Works failing to meet geotechnical requirements	Element:	Refer to work type (e.g., stripping, subgrade compaction), basis of assessment (e.g., inspection, test reference numbers, and the like), extent of work apparently failing to comply, requirements not met, action taken (instructions issued, retests ordered, and the like).
	Result:	

Reviewed By: Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
				
Corrective Action Details:				

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1411
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	4/06/2025
Owner:	-	Arrival / Departure Time:	00:00 / -
Constructor:	-	Superintendent:	-
Remarks	Element:	Include observations on works, site conditions, meetings or conversations on site, and the like.	
	Result:		

Reviewed By: Craig Goss  	Corrective Action Required? -	Re-Inspection Date: -
	Corrective Action Details:	

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1411
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	4/06/2025
Owner:	-	Arrival / Departure Time:	00:00 / -
Constructor:	-	Superintendent:	-



Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
					

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1415
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	5/06/2025
Owner:	-	Arrival / Departure Time:	10:30 / 11:30
Constructor:	-	Superintendent:	-

Earthworks in current progress	Element:	
	Result:	Fill is being placed over the site. 2 x CAT 623F Elevated Scraper's placing Fill Material in approved Section. 1 x CAT 825C Compactor is levelling and compacting the Fill Material. 1 x CAT 140M Grader is levelling out Fill Material in the approved section. 1 x Water Cart is supplying the Fill Area with sufficient moisture treatment to achieve the required compaction.

Materials testing	Element:	Refer to material, type, source, purpose of testing, sampling methods and locations, test types, sample reference numbers, results obtained, and to whom distributed.
	Result:	

Field density testing	Element:	Refer to types of test, section of work to which tests apply, test locations and levels, test reference numbers, results obtained, and to whom distributed.
	Result:	Compaction testing carried out on Layer 2 of Fill Material in Approved Section 2. 10 x AS1289.5.8.1 (Field Density) 5676/T/25-1415 Sample 5676/S/25-6153 5676/T/25-1415 Sample 5676/S/25-6154 5676/T/25-1415 Sample 5676/S/25-6155 5676/T/25-1415 Sample 5676/S/25-6156 5676/T/25-1415 Sample 5676/S/25-6157 5676/T/25-1415 Sample 5676/S/25-6158 5676/T/25-1415 Sample 5676/S/25-6159 5676/T/25-1415 Sample 5676/S/25-6160 5676/T/25-1415 Sample 5676/S/25-6161 5676/T/25-1415 Sample 5676/S/25-6162

Laboratory compaction testing	Element:	Refer to test methods, location of sampling, sample reference numbers, results obtained, and to whom distributed.
	Result:	Laboratory testing carried out. 10 x AS1289.5.7.1 (Hilf Density Ratio) 5676/T/25-1415 Sample 5676/S/25-6153 5676/T/25-1415 Sample 5676/S/25-6154 5676/T/25-1415 Sample 5676/S/25-6155 5676/T/25-1415 Sample 5676/S/25-6156 5676/T/25-1415 Sample 5676/S/25-6157 5676/T/25-1415 Sample 5676/S/25-6158 5676/T/25-1415 Sample 5676/S/25-6159 5676/T/25-1415 Sample 5676/S/25-6160 5676/T/25-1415 Sample 5676/S/25-6161 5676/T/25-1415 Sample 5676/S/25-6162

Works meeting geotechnical requirements	Element:	Refer to work type (e.g. stripping, subgrade compaction), basis of assessment (e.g. inspection, test reference numbers, and the like), extent of works apparently complying and requirements met.
	Result:	

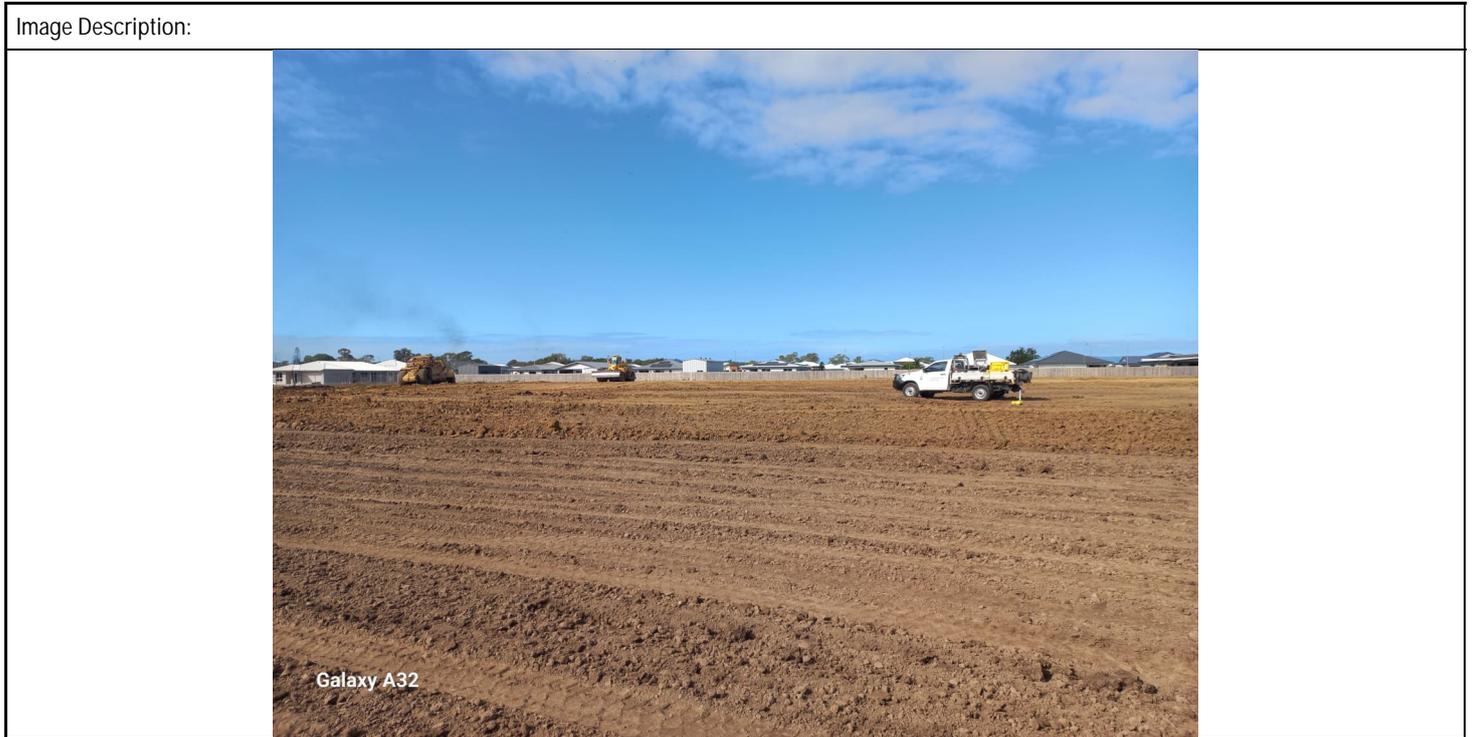
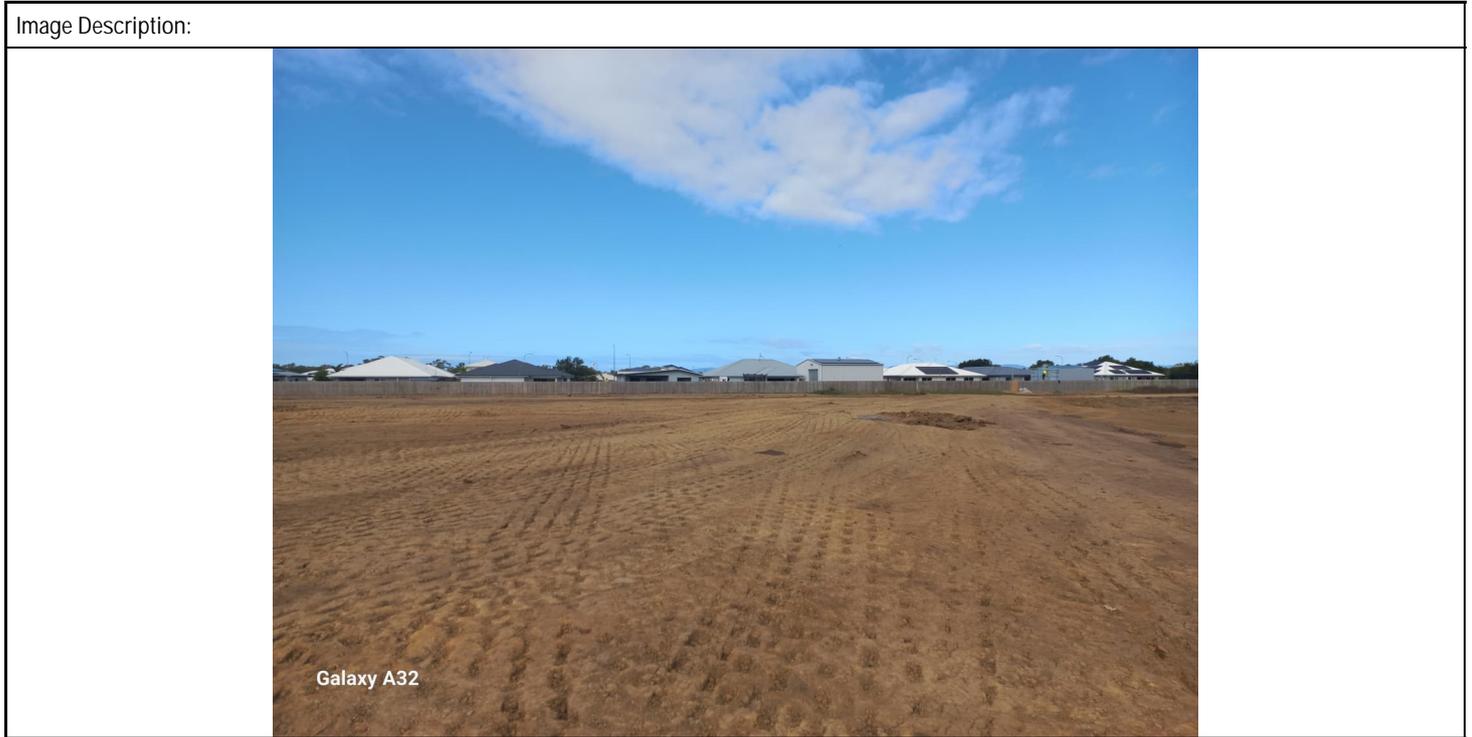
Works failing to meet geotechnical requirements	Element:	Refer to work type (e.g., stripping, subgrade compaction), basis of assessment (e.g., inspection, test reference numbers, and the like), extent of work apparently failing to comply, requirements not met, action taken (instructions issued, retests ordered, and the like).
	Result:	

Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
		Corrective Action Details:			

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1415
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	5/06/2025
Owner:	-	Arrival / Departure Time:	10:30 / 11:30
Constructor:	-	Superintendent:	-
Remarks	Element:	Include observations on works, site conditions, meetings or conversations on site, and the like.	
	Result:		

Reviewed By: Craig Goss  	Corrective Action Required? -	Re-Inspection Date: -
	Corrective Action Details:	

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1415
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	5/06/2025
Owner:	-	Arrival / Departure Time:	10:30 / 11:30
Constructor:	-	Superintendent:	-



Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
					

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1435
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	6/06/2025
Owner:	-	Arrival / Departure Time:	00:00 / 00:00
Constructor:	-	Superintendent:	-

Earthworks in current progress	Element:	
	Result:	Fill is being placed in approved Fill Area's. 2 x CAT 623F Elevated Scraper's placing Fill Material in approved Section. 1 x CAT 825C Compactor is levelling and compacting the Fill Material. 1 x CAT 140M Grader is levelling out Fill Material in the approved section. 1 x Water Cart is supplying the Fill Area with sufficient moisture treatment to achieve the required compaction.

Materials testing	Element:	Refer to material, type, source, purpose of testing, sampling methods and locations, test types, sample reference numbers, results obtained, and to whom distributed.
	Result:	

Field density testing	Element:	Refer to types of test, section of work to which tests apply, test locations and levels, test reference numbers, results obtained, and to whom distributed.
	Result:	Compaction testing carried out on Layer 3 of Fill Material in Approved Sections. 6 x AS1289.5.8.1 (Field Density) 5676/T/25-1435 Sample 5676/S/25-6244 5676/T/25-1435 Sample 5676/S/25-6245 5676/T/25-1435 Sample 5676/S/25-6246 5676/T/25-1435 Sample 5676/S/25-6247 5676/T/25-1435 Sample 5676/S/25-6248 5676/T/25-1435 Sample 5676/S/25-6249

Laboratory compaction testing	Element:	Refer to test methods, location of sampling, sample reference numbers, results obtained, and to whom distributed.
	Result:	Laboratory testing carried out. 6 x AS1289.5.7.1 (Hilf Density Ratio) 5676/T/25-1435 Sample 5676/S/25-6244 5676/T/25-1435 Sample 5676/S/25-6245 5676/T/25-1435 Sample 5676/S/25-6246 5676/T/25-1435 Sample 5676/S/25-6247 5676/T/25-1435 Sample 5676/S/25-6248 5676/T/25-1435 Sample 5676/S/25-6249

Works meeting geotechnical requirements	Element:	Refer to work type (e.g. stripping, subgrade compaction), basis of assessment (e.g. inspection, test reference numbers, and the like), extent of works apparently complying and requirements met.
	Result:	

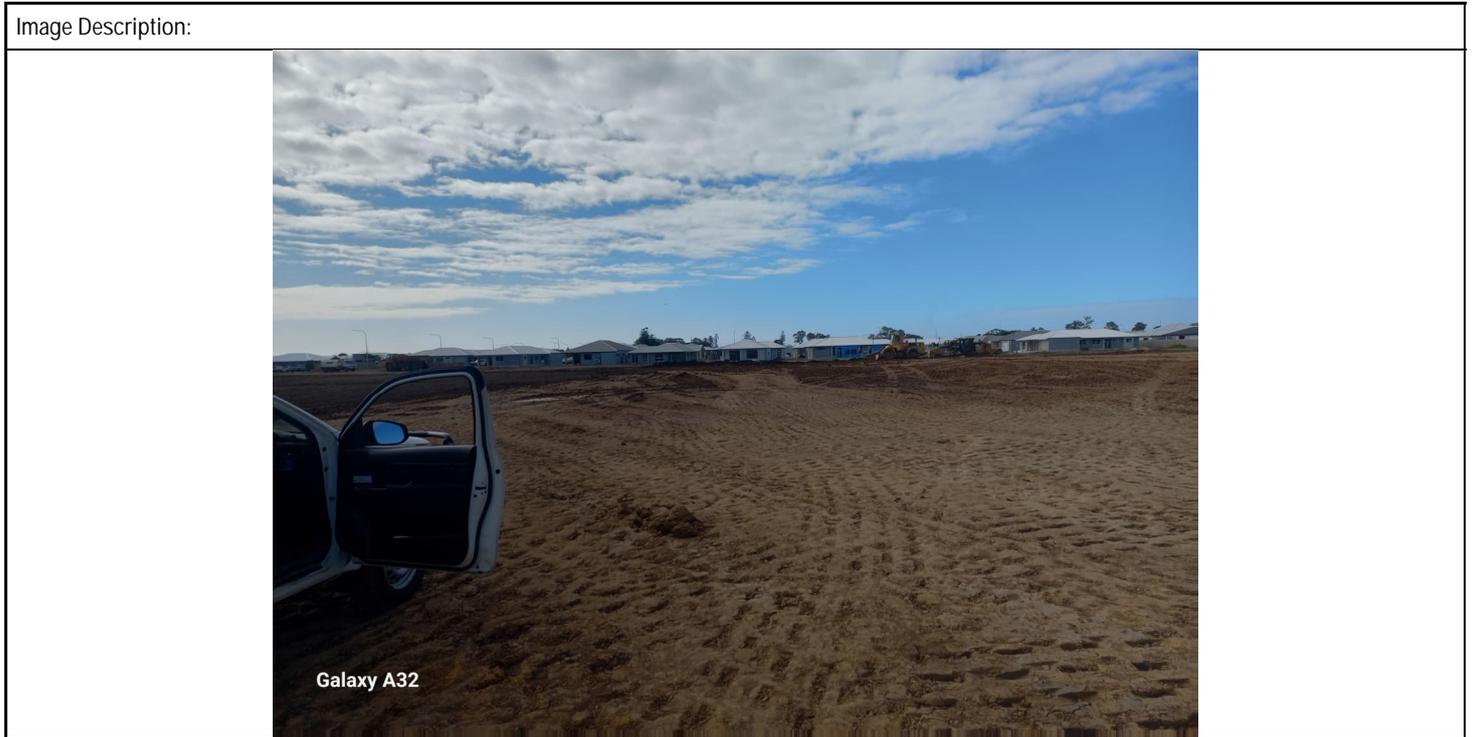
Works failing to meet geotechnical requirements	Element:	Refer to work type (e.g., stripping, subgrade compaction), basis of assessment (e.g., inspection, test reference numbers, and the like), extent of work apparently failing to comply, requirements not met, action taken (instructions issued, retests ordered, and the like).
	Result:	

Remarks	Element:	Include observations on works, site conditions, meetings or conversations on site, and the like.
	Result:	

Reviewed By: Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
	Corrective Action Details:			



Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1435
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	6/06/2025
Owner:	-	Arrival / Departure Time:	00:00 / 00:00
Constructor:	-	Superintendent:	-



Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
					

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1435
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	6/06/2025
Owner:	-	Arrival / Departure Time:	00:00 / 00:00
Constructor:	-	Superintendent:	-

Image Description:



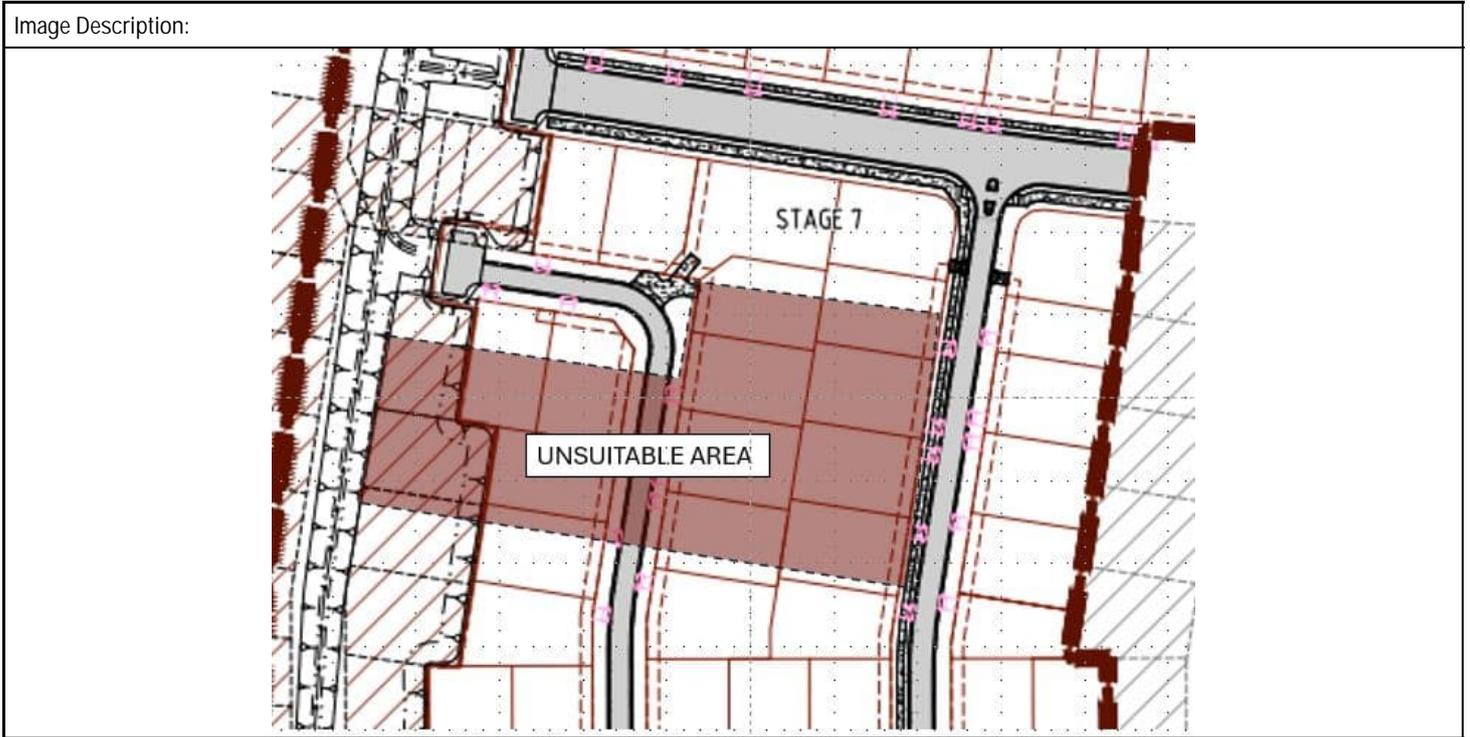
Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
					

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1437
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	9/06/2025
Owner:	-	Arrival / Departure Time:	11:00 / 12:00
Constructor:	-	Superintendent:	-

Earthworks in current progress	Element:	
	Result:	Fill is being placed in approved Fill Area. 2 x CAT 623F Elevated Scraper's placing Fill Material from onsite burrow pit in approved Section. 1 x CAT 825C Compactor is levelling and compacting the Fill Material. 1 x CAT 140M Grader is levelling out Fill Material in the approved section. 1 x Water Cart is supplying the Fill Area with sufficient moisture treatment to achieve the required compaction.
Materials testing	Element:	Refer to material, type, source, purpose of testing, sampling methods and locations, test types, sample reference numbers, results obtained, and to whom distributed.
	Result:	
Field density testing	Element:	Refer to types of test, section of work to which tests apply, test locations and levels, test reference numbers, results obtained, and to whom distributed.
	Result:	
Laboratory compaction testing	Element:	Refer to test methods, location of sampling, sample reference numbers, results obtained, and to whom distributed.
	Result:	
Works meeting geotechnical requirements	Element:	Refer to work type (e.g. stripping, subgrade compaction), basis of assessment (e.g. inspection, test reference numbers, and the like), extent of works apparently complying and requirements met.
	Result:	Proof roll performed on proposed Fill Area.
Works failing to meet geotechnical requirements	Element:	Refer to work type (e.g., stripping, subgrade compaction), basis of assessment (e.g., inspection, test reference numbers, and the like), extent of work apparently failing to comply, requirements not met, action taken (instructions issued, retests ordered, and the like).
	Result:	Unsuitable Area identified and marked out. Direction given to remove the unsuitable material to expose the brown sandy clay underneath.
Remarks	Element:	Include observations on works, site conditions, meetings or conversations on site, and the like.
	Result:	

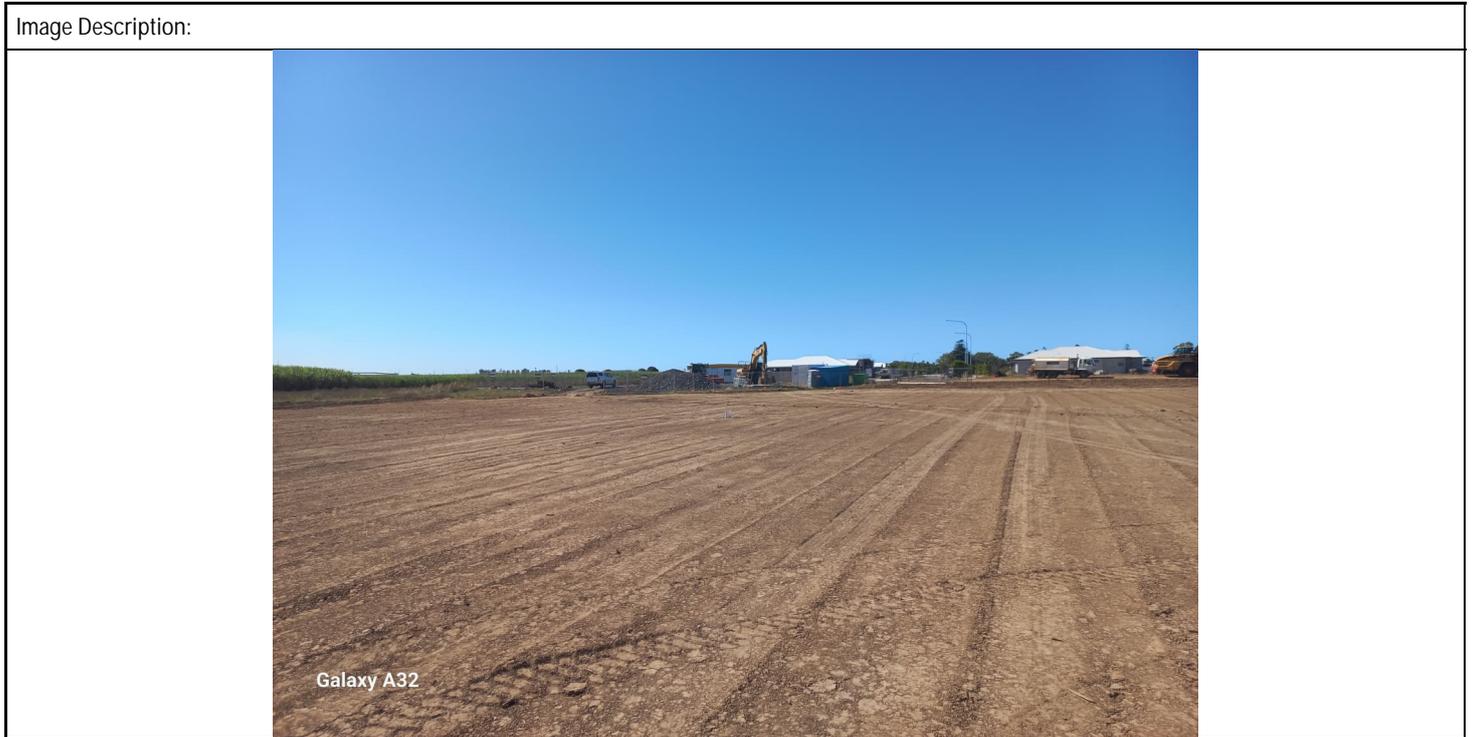
Reviewed By: Craig Goss  	Corrective Action Required? -	Re-Inspection Date: -
	Corrective Action Details:	

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1437
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	9/06/2025
Owner:	-	Arrival / Departure Time:	11:00 / 12:00
Constructor:	-	Superintendent:	-



Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
					

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1437
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	9/06/2025
Owner:	-	Arrival / Departure Time:	11:00 / 12:00
Constructor:	-	Superintendent:	-



Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
					

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1437
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	9/06/2025
Owner:	-	Arrival / Departure Time:	11:00 / 12:00
Constructor:	-	Superintendent:	-

## Image Description:



Galaxy A32

Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
					

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1488
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	10/06/2025
Owner:	-	Arrival / Departure Time:	11:00 / 12:00
Constructor:	-	Superintendent:	-

Earthworks in current progress	Element:	
	Result:	2 x CAT 623F Elevated Scraper's placing Fill Material in approved Section. 1 x CAT 825C Compactor is levelling and compacting the Fill Material. 1 x CAT 140M Grader is levelling out Fill Material in the approved section. 1 x Water Cart is supplying the Fill Area with sufficient moisture treatment to achieve the required compaction.

Materials testing	Element:	Refer to material, type, source, purpose of testing, sampling methods and locations, test types, sample reference numbers, results obtained, and to whom distributed.
	Result:	

Field density testing	Element:	Refer to types of test, section of work to which tests apply, test locations and levels, test reference numbers, results obtained, and to whom distributed.
	Result:	Compaction Test's carried out on GST in Section 4 4 x AS1289.5.8.1 (Field Density) 5676/T/25-1488 Sample 5676/S/25-6465 5676/T/25-1488 Sample 5676/S/25-6466 5676/T/25-1488 Sample 5676/S/25-6467 5676/T/25-1488 Sample 5676/S/25-6468

Laboratory compaction testing	Element:	Refer to test methods, location of sampling, sample reference numbers, results obtained, and to whom distributed.
	Result:	Laboratory testing carried out. 4 x AS1289.5.7.1 (Hilf Density Ratio) 5676/T/25-1488 Sample 5676/S/25-6465 5676/T/25-1488 Sample 5676/S/25-6466 5676/T/25-1488 Sample 5676/S/25-6467 5676/T/25-1488 Sample 5676/S/25-6468

Works meeting geotechnical requirements	Element:	Refer to work type (e.g. stripping, subgrade compaction), basis of assessment (e.g. inspection, test reference numbers, and the like), extent of works apparently complying and requirements met.
	Result:	

Works failing to meet geotechnical requirements	Element:	Refer to work type (e.g., stripping, subgrade compaction), basis of assessment (e.g., inspection, test reference numbers, and the like), extent of work apparently failing to comply, requirements not met, action taken (instructions issued, retests ordered, and the like).
	Result:	

Remarks	Element:	Include observations on works, site conditions, meetings or conversations on site, and the like.
	Result:	

Reviewed By: Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
	Corrective Action Details:			



Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1488
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	10/06/2025
Owner:	-	Arrival / Departure Time:	11:00 / 12:00
Constructor:	-	Superintendent:	-

Image Description:



Image Description:



Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
					

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1488
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	10/06/2025
Owner:	-	Arrival / Departure Time:	11:00 / 12:00
Constructor:	-	Superintendent:	-



Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
					

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1488
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	10/06/2025
Owner:	-	Arrival / Departure Time:	11:00 / 12:00
Constructor:	-	Superintendent:	-



Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
					

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1494
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	11/06/2025
Owner:	-	Arrival / Departure Time:	10:00 / 11:00
Constructor:	-	Superintendent:	-

Earthworks in current progress	Element:	
	Result:	Proof Roll Performed on proposed fill area using a Water Truck and an area was marked out as Section 3 and fill was approved to be placed following compaction testing. The Unsuitable area was marked as Section 5 and DCP testing required to investigate the underlying surface.

Materials testing	Element:	Refer to material, type, source, purpose of testing, sampling methods and locations, test types, sample reference numbers, results obtained, and to whom distributed.
	Result:	

Field density testing	Element:	Refer to types of test, section of work to which tests apply, test locations and levels, test reference numbers, results obtained, and to whom distributed.
	Result:	Compaction Test's carried out on Section 4 Layer 1 6 x AS1289.5.8.1 (Field Density) 5676/T/25-1494 Sample 5676/S/25-6584 5676/T/25-1494 Sample 5676/S/25-6585 5676/T/25-1494 Sample 5676/S/25-6586 5676/T/25-1494 Sample 5676/S/25-6587 5676/T/25-1494 Sample 5676/S/25-6588 5676/T/25-1494 Sample 5676/S/25-6589

Laboratory compaction testing	Element:	Refer to test methods, location of sampling, sample reference numbers, results obtained, and to whom distributed.
	Result:	Laboratory testing carried out. 6 x AS1289.5.7.1 (Hilf Density Ratio) 5676/T/25-1494 Sample 5676/S/25-6584 5676/T/25-1494 Sample 5676/S/25-6585 5676/T/25-1494 Sample 5676/S/25-6586 5676/T/25-1494 Sample 5676/S/25-6587 5676/T/25-1494 Sample 5676/S/25-6588 5676/T/25-1494 Sample 5676/S/25-6589

Works meeting geotechnical requirements	Element:	Refer to work type (e.g. stripping, subgrade compaction), basis of assessment (e.g. inspection, test reference numbers, and the like), extent of works apparently complying and requirements met.
	Result:	Proof Roll Performed on proposed fill area using a Water Truck and an area was marked out as Section 3 and fill was approved to be placed following compaction testing.

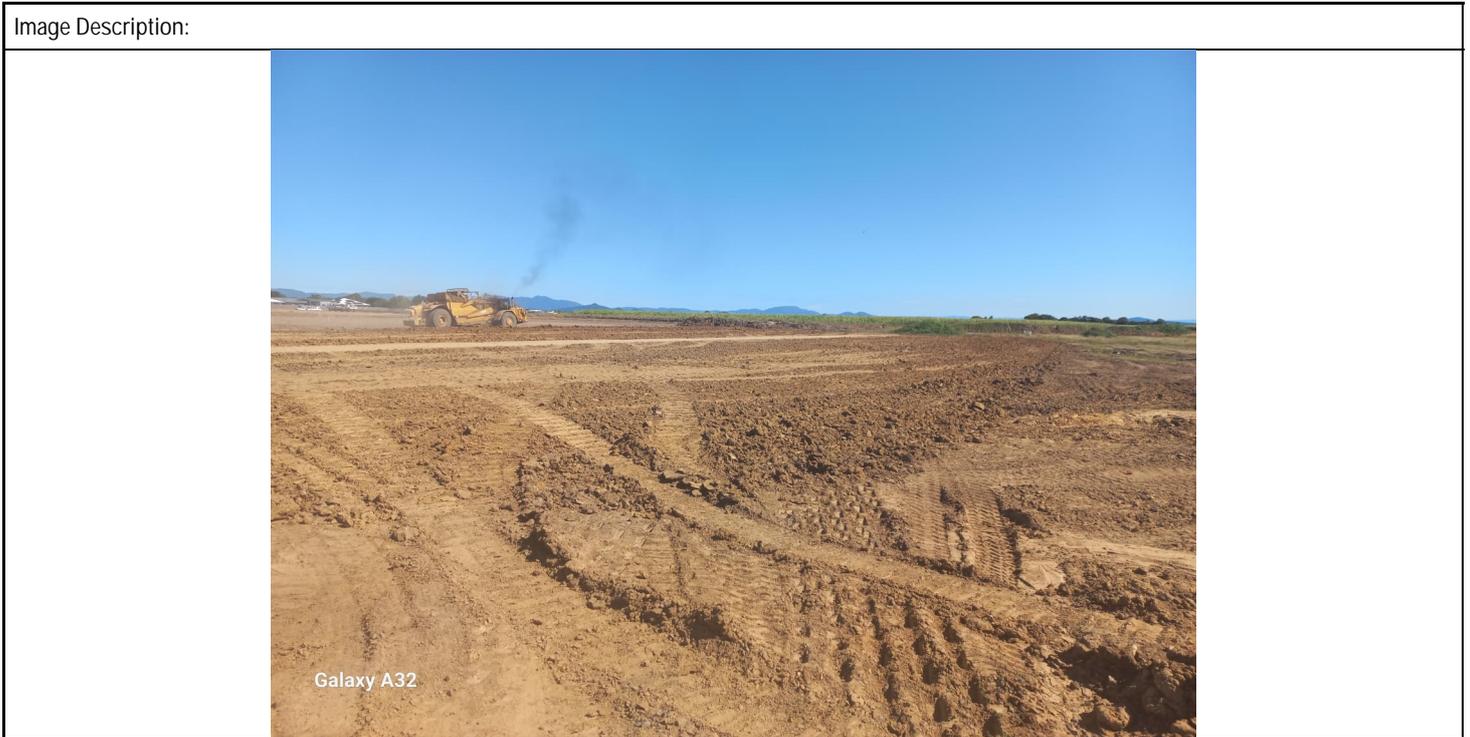
Works failing to meet geotechnical requirements	Element:	Refer to work type (e.g., stripping, subgrade compaction), basis of assessment (e.g., inspection, test reference numbers, and the like), extent of work apparently failing to comply, requirements not met, action taken (instructions issued, retests ordered, and the like).
	Result:	The Unsuitable area was marked as Section 5 and DCP testing required to investigate the underlying surface.

Remarks	Element:	Include observations on works, site conditions, meetings or conversations on site, and the like.
	Result:	

Reviewed By: Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
	Corrective Action Details:			

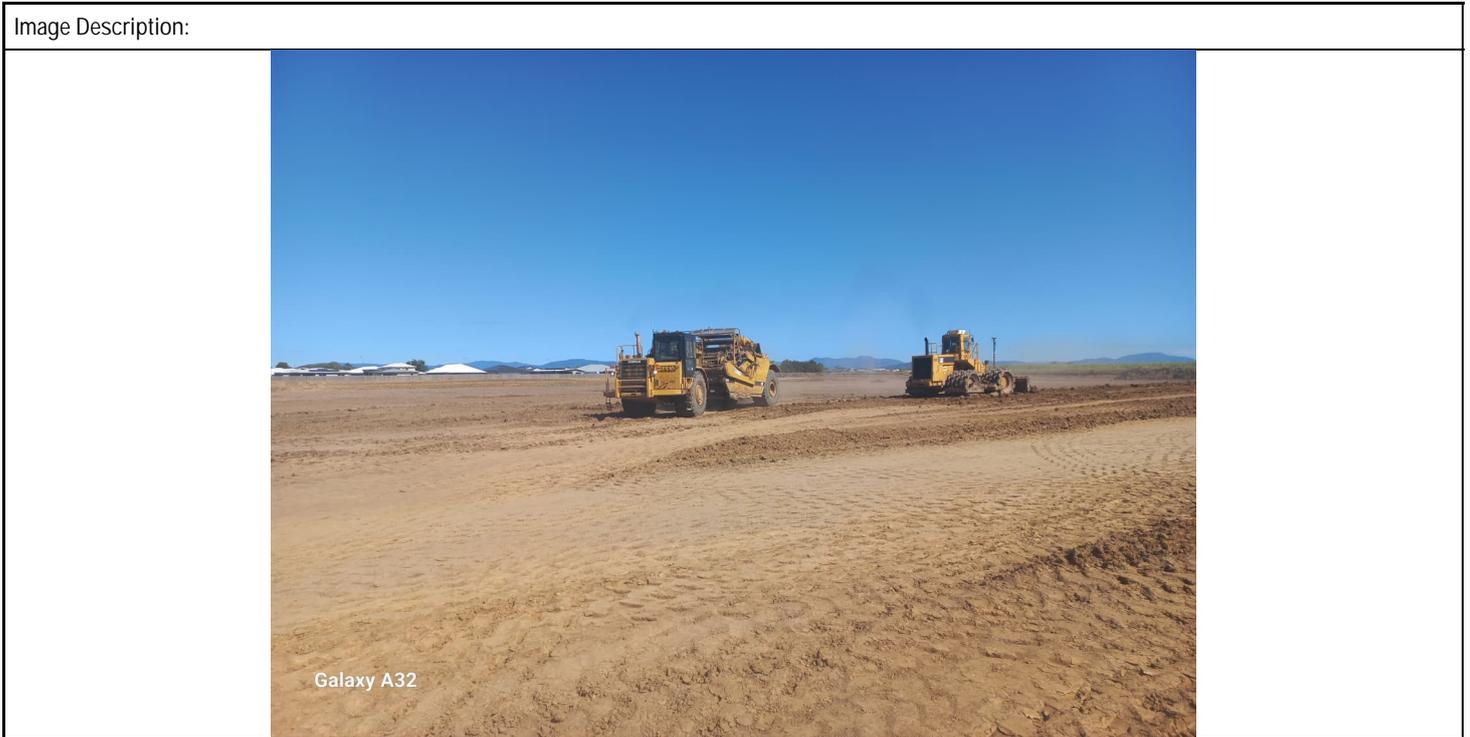


Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1494
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	11/06/2025
Owner:	-	Arrival / Departure Time:	10:00 / 11:00
Constructor:	-	Superintendent:	-



Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
					

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1494
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	11/06/2025
Owner:	-	Arrival / Departure Time:	10:00 / 11:00
Constructor:	-	Superintendent:	-



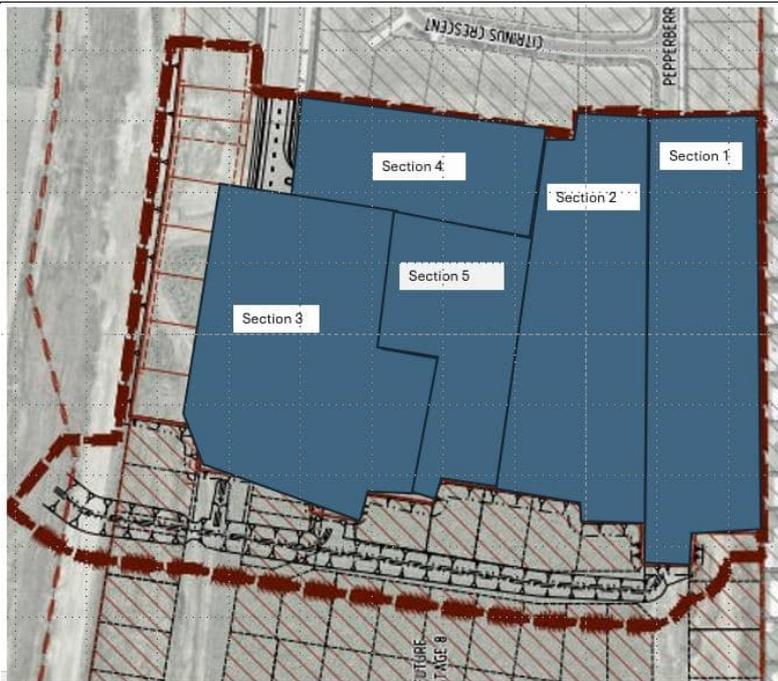
Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
					

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1494
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	11/06/2025
Owner:	-	Arrival / Departure Time:	10:00 / 11:00
Constructor:	-	Superintendent:	-

Image Description:



Image Description:



Reviewed By: Craig Goss

Corrective Action Required? -

Re-Inspection Date: -



Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1495
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	12/06/2025
Owner:	-	Arrival / Departure Time:	09:00 / 10:00
Constructor:	-	Superintendent:	-

Earthworks in current progress	Element:	
	Result:	2 x CAT 623F Elevated Scraper's placing Fill Material in approved Section. 1 x CAT 825C Compactor is levelling and compacting the Fill Material. 1 x CAT 140M Grader is levelling out Fill Material in the approved section. 1 x Water Cart is supplying the Fill Area with sufficient moisture treatment to achieve the required compaction

Materials testing	Element:	Refer to material, type, source, purpose of testing, sampling methods and locations, test types, sample reference numbers, results obtained, and to whom distributed.
	Result:	DCP testing carried out on Section 5 6 x AS1289.6.3.2 (Dynamic Cone Pentrometer) 5676/T/25-1517 Sample 5676/S/25-6628 5676/T/25-1517 Sample 5676/S/25-6629 5676/T/25-1517 Sample 5676/S/25-6630 5676/T/25-1517 Sample 5676/S/25-6631 5676/T/25-1517 Sample 5676/S/25-6632 5676/T/25-1517 Sample 5676/S/25-6633

Field density testing	Element:	Refer to types of test, section of work to which tests apply, test locations and levels, test reference numbers, results obtained, and to whom distributed.
	Result:	Compaction Test's carried out on Section 3 Layer 1 6 x AS1289.5.8.1 (Field Density) 5676/T/25-1495 Sample 5676/S/25-6756 5676/T/25-1495 Sample 5676/S/25-6757 5676/T/25-1495 Sample 5676/S/25-6758 5676/T/25-1495 Sample 5676/S/25-6759 5676/T/25-1495 Sample 5676/S/25-6760 5676/T/25-1495 Sample 5676/S/25-6761

Laboratory compaction testing	Element:	Refer to test methods, location of sampling, sample reference numbers, results obtained, and to whom distributed.
	Result:	Laboratory testing carried out. 6 x AS1289.5.7.1 (Hilf Density Ratio) 5676/T/25-1495 Sample 5676/S/25-6756 5676/T/25-1495 Sample 5676/S/25-6757 5676/T/25-1495 Sample 5676/S/25-6758 5676/T/25-1495 Sample 5676/S/25-6759 5676/T/25-1495 Sample 5676/S/25-6760 5676/T/25-1495 Sample 5676/S/25-6761

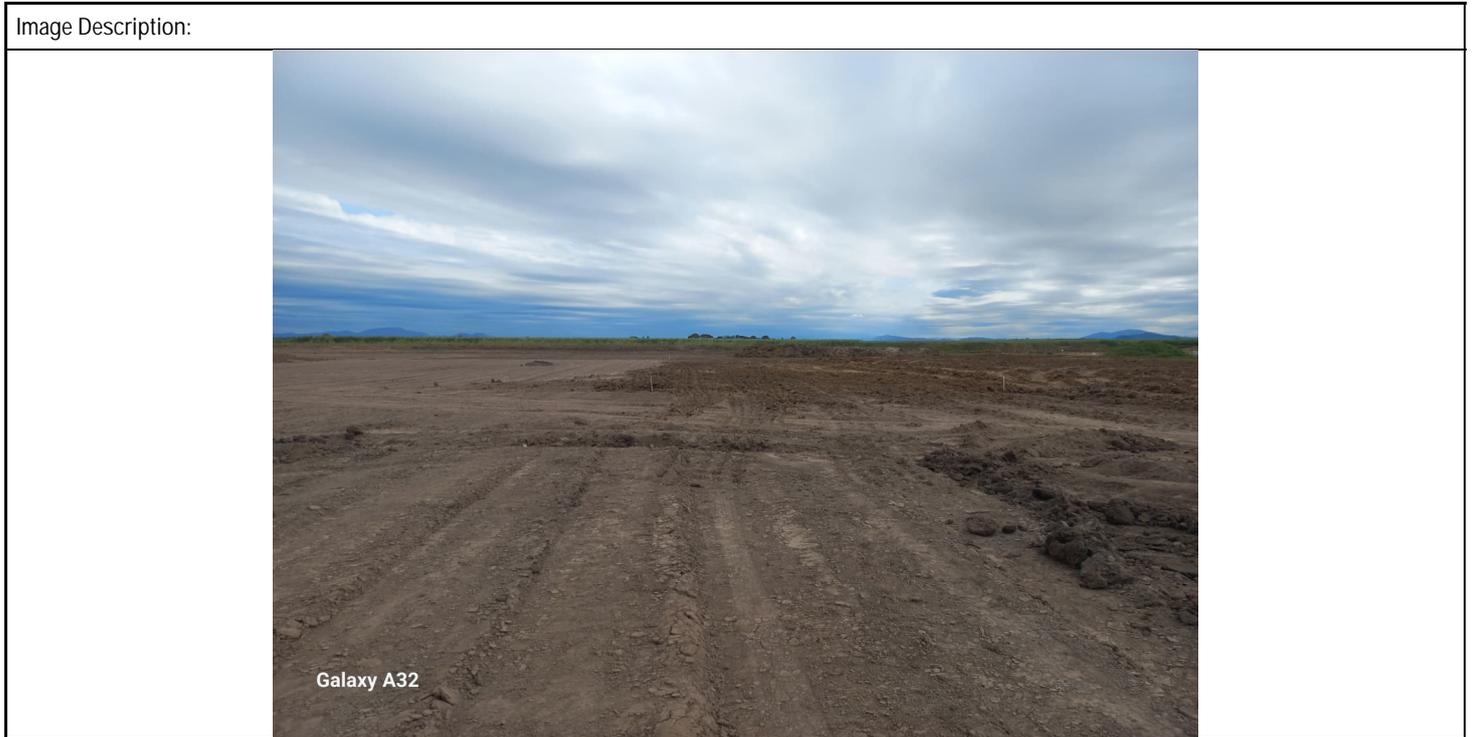
Works meeting geotechnical requirements	Element:	Refer to work type (e.g. stripping, subgrade compaction), basis of assessment (e.g. inspection, test reference numbers, and the like), extent of works apparently complying and requirements met.
	Result:	

Works failing to meet geotechnical requirements	Element:	Refer to work type (e.g., stripping, subgrade compaction), basis of assessment (e.g., inspection, test reference numbers, and the like), extent of work apparently failing to comply, requirements not met, action taken (instructions issued, retests ordered, and the like).
	Result:	

Remarks	Element:	Include observations on works, site conditions, meetings or conversations on site, and the like.
	Result:	

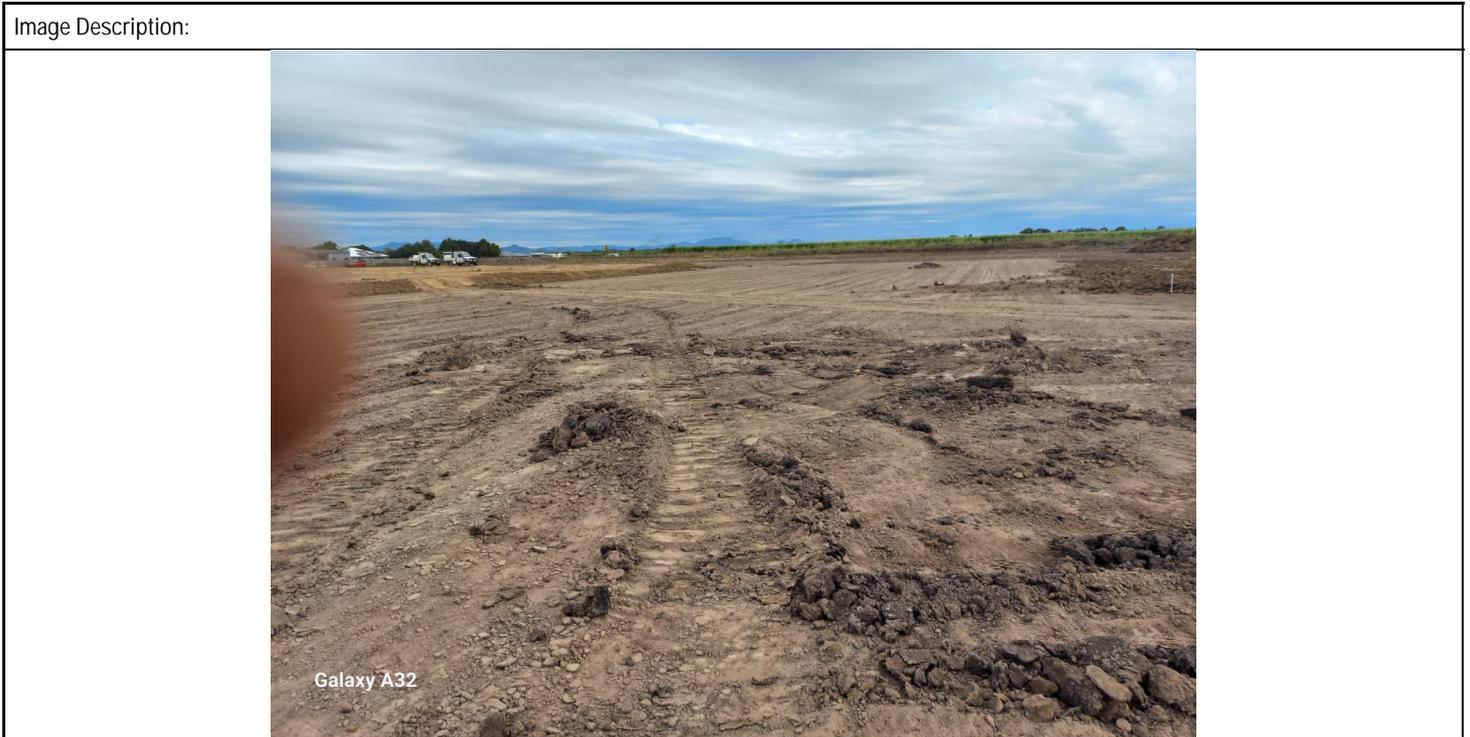
Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
		Corrective Action Details:			

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1495
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	12/06/2025
Owner:	-	Arrival / Departure Time:	09:00 / 10:00
Constructor:	-	Superintendent:	-



Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
					

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1495
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	12/06/2025
Owner:	-	Arrival / Departure Time:	09:00 / 10:00
Constructor:	-	Superintendent:	-



Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
					

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1495
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	12/06/2025
Owner:	-	Arrival / Departure Time:	09:00 / 10:00
Constructor:	-	Superintendent:	-

Image Description:



Image Description:



Reviewed By: Craig Goss

Corrective Action Required? -

Re-Inspection Date: -



Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1495
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	12/06/2025
Owner:	-	Arrival / Departure Time:	09:00 / 10:00
Constructor:	-	Superintendent:	-



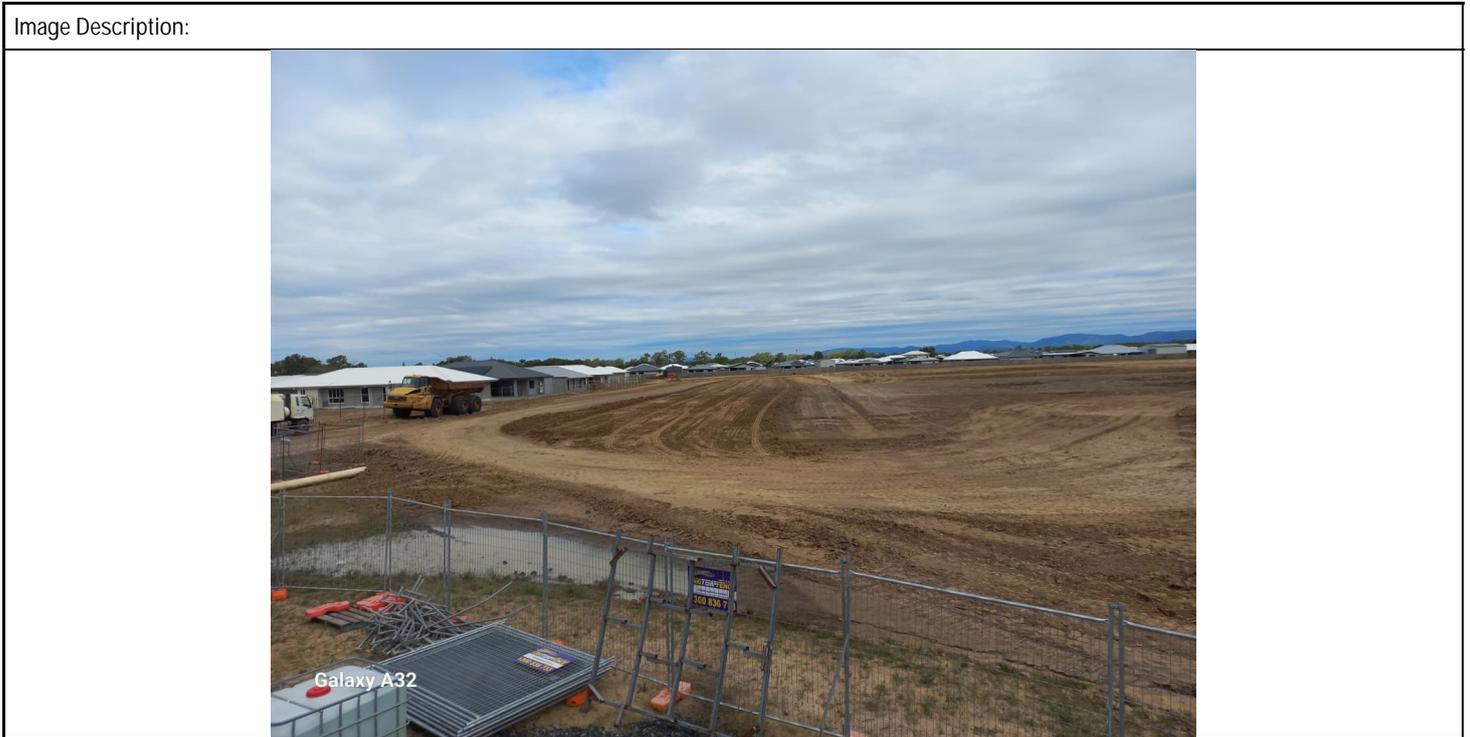
Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
					

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1495
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	12/06/2025
Owner:	-	Arrival / Departure Time:	09:00 / 10:00
Constructor:	-	Superintendent:	-



Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
					

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1495
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	12/06/2025
Owner:	-	Arrival / Departure Time:	09:00 / 10:00
Constructor:	-	Superintendent:	-



Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
					

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1505
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	13/06/2025
Owner:	-	Arrival / Departure Time:	11:00 / 12:00
Constructor:	-	Superintendent:	-

Earthworks in current progress	Element:	
	Result:	No Earthworks in progress due to Heavy Rain Last night.

Materials testing	Element:	Refer to material, type, source, purpose of testing, sampling methods and locations, test types, sample reference numbers, results obtained, and to whom distributed.
	Result:	

Field density testing	Element:	Refer to types of test, section of work to which tests apply, test locations and levels, test reference numbers, results obtained, and to whom distributed.
	Result:	

Laboratory compaction testing	Element:	Refer to test methods, location of sampling, sample reference numbers, results obtained, and to whom distributed.
	Result:	Quality tests carried out on unsuitable material and the Brown Sandy Clay 2 x AS1289.3.6.1 (Particle Size Distribution), AS1289.3.1.2 (Liquid Limit), AS1289.3.2.1 (Plastic Limit), AS1289.3.4.1 (Linear Shrinkage) 5676/T/25-1505 Sample 5676/S/25-6534 5676/T/25-1505 Sample 5676/S/25-6535

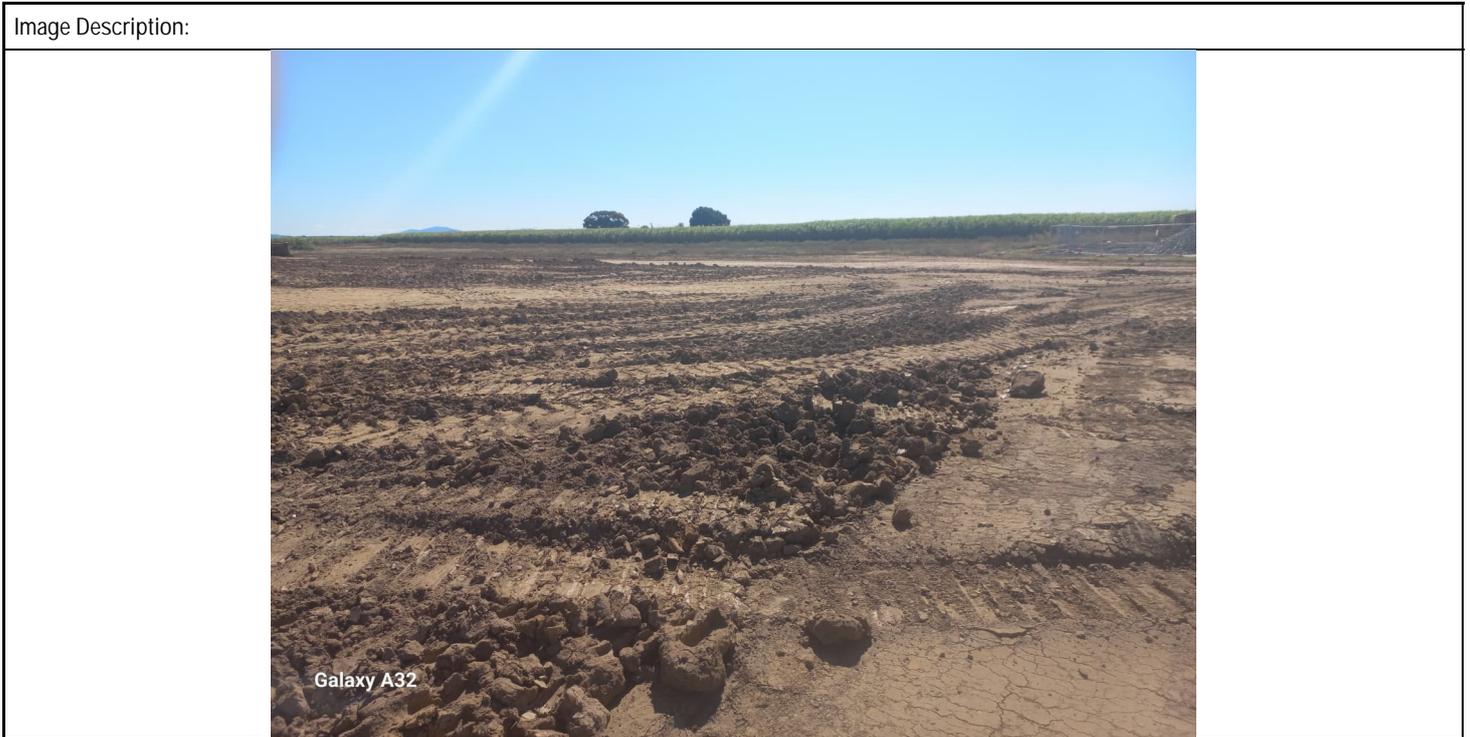
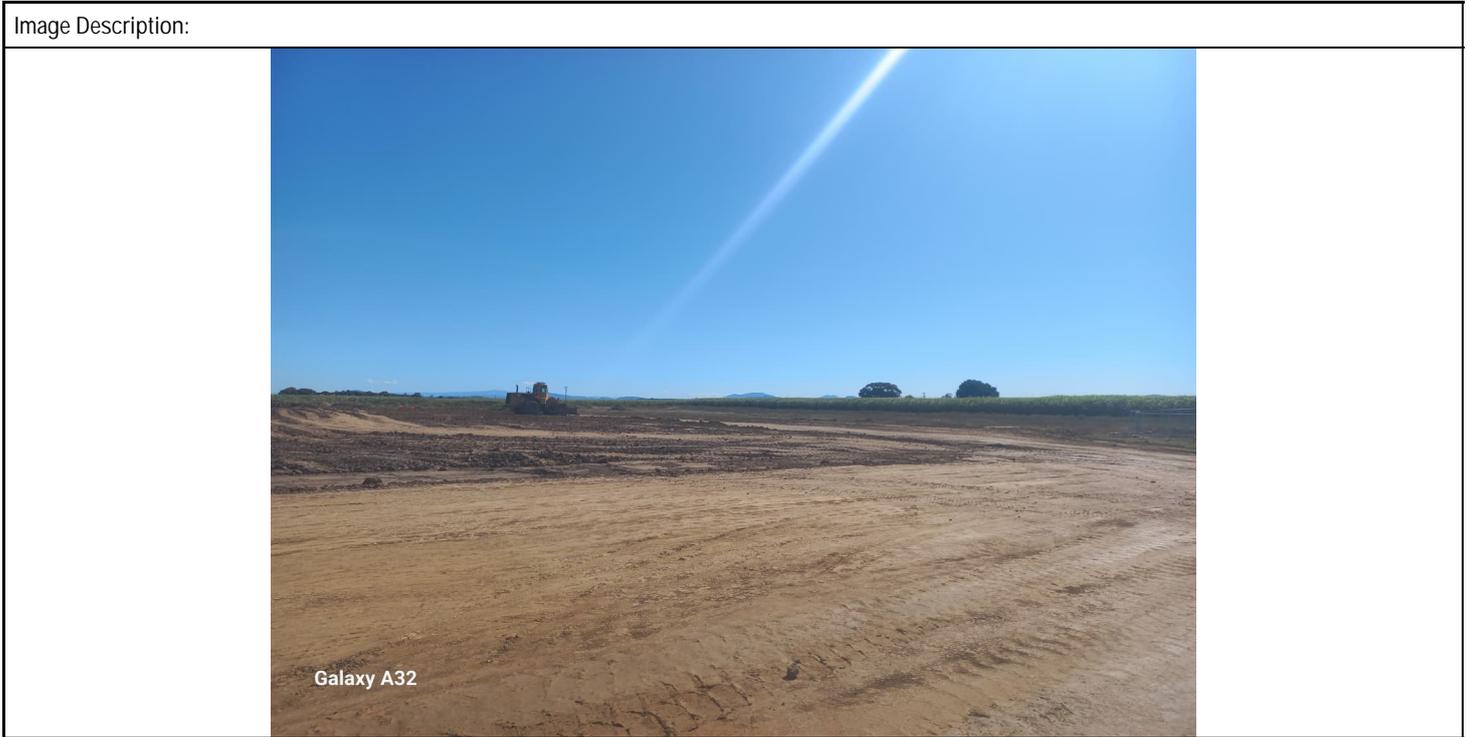
Works meeting geotechnical requirements	Element:	Refer to work type (e.g. stripping, subgrade compaction), basis of assessment (e.g. inspection, test reference numbers, and the like), extent of works apparently complying and requirements met.
	Result:	

Works failing to meet geotechnical requirements	Element:	Refer to work type (e.g., stripping, subgrade compaction), basis of assessment (e.g., inspection, test reference numbers, and the like), extent of work apparently failing to comply, requirements not met, action taken (instructions issued, retests ordered, and the like).
	Result:	

Remarks	Element:	Include observations on works, site conditions, meetings or conversations on site, and the like.
	Result:	

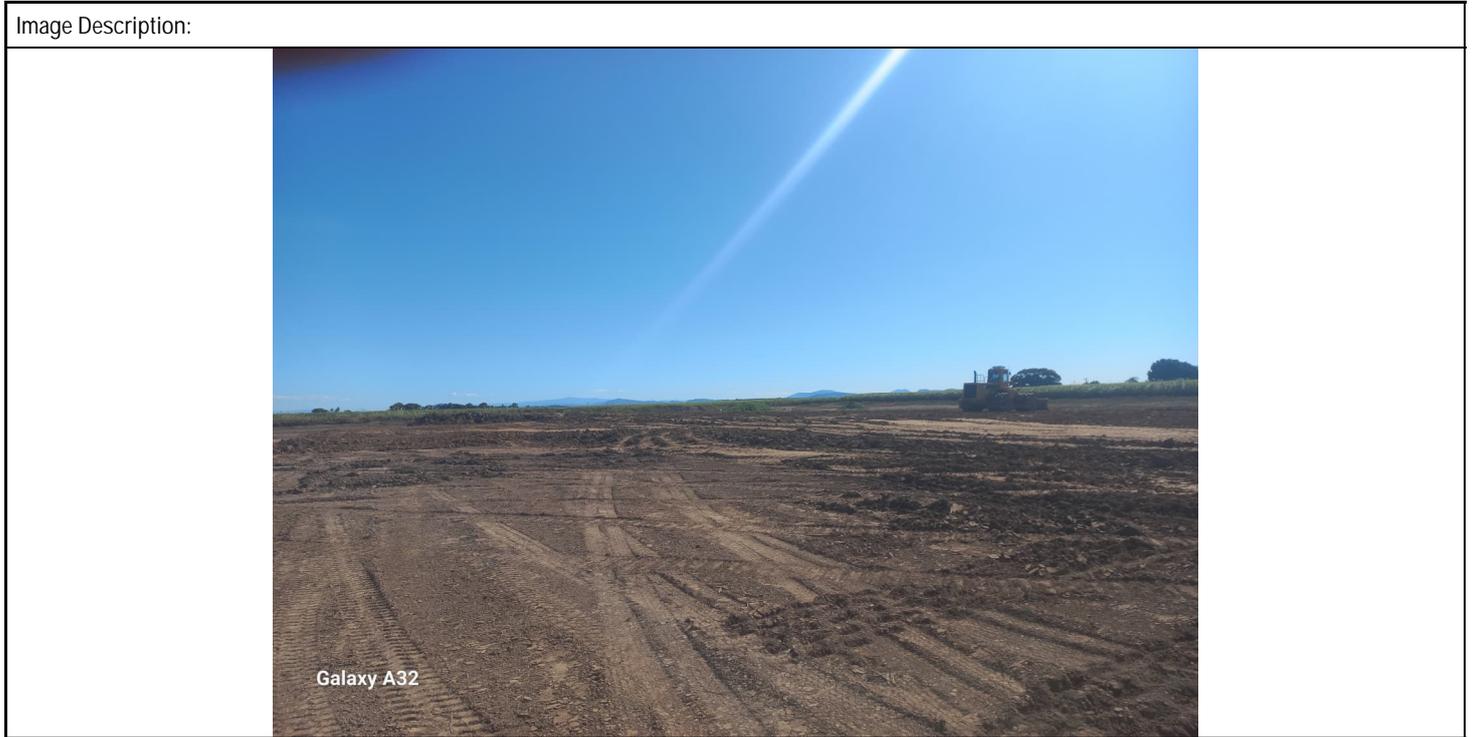
Reviewed By: Craig Goss 	Corrective Action Required?	-	Re-Inspection Date:	-
	Corrective Action Details:			

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1505
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	13/06/2025
Owner:	-	Arrival / Departure Time:	11:00 / 12:00
Constructor:	-	Superintendent:	-



Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
					

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1505
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	13/06/2025
Owner:	-	Arrival / Departure Time:	11:00 / 12:00
Constructor:	-	Superintendent:	-



Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
					

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1496
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	16/06/2025
Owner:	-	Arrival / Departure Time:	13:00 / 14:00
Constructor:	-	Superintendent:	-

Earthworks in current progress	Element:	
	Result:	No Earthworks due to heavy rain over the weekend. Was able to test Section 3 Layer 2 that was prepared on the 12/06/2025

Materials testing	Element:	Refer to material, type, source, purpose of testing, sampling methods and locations, test types, sample reference numbers, results obtained, and to whom distributed.
	Result:	

Field density testing	Element:	Refer to types of test, section of work to which tests apply, test locations and levels, test reference numbers, results obtained, and to whom distributed.
	Result:	Compaction Test's carried out on Section 3 Layer 2 6 x AS1289.5.8.1 (Field Density) 5676/T/25-1496 Sample 5676/S/25-6536 5676/T/25-1496 Sample 5676/S/25-6537 5676/T/25-1496 Sample 5676/S/25-6538 5676/T/25-1496 Sample 5676/S/25-6539 5676/T/25-1496 Sample 5676/S/25-6540 5676/T/25-1496 Sample 5676/S/25-6541

Laboratory compaction testing	Element:	Refer to test methods, location of sampling, sample reference numbers, results obtained, and to whom distributed.
	Result:	Laboratory testing carried out. 6 x AS1289.5.7.1 (Hilf Density Ratio) 5676/T/25-1496 Sample 5676/S/25-6536 5676/T/25-1496 Sample 5676/S/25-6537 5676/T/25-1496 Sample 5676/S/25-6538 5676/T/25-1496 Sample 5676/S/25-6539 5676/T/25-1496 Sample 5676/S/25-6540 5676/T/25-1496 Sample 5676/S/25-6541

Works meeting geotechnical requirements	Element:	Refer to work type (e.g. stripping, subgrade compaction), basis of assessment (e.g. inspection, test reference numbers, and the like), extent of works apparently complying and requirements met.
	Result:	

Works failing to meet geotechnical requirements	Element:	Refer to work type (e.g., stripping, subgrade compaction), basis of assessment (e.g., inspection, test reference numbers, and the like), extent of work apparently failing to comply, requirements not met, action taken (instructions issued, retests ordered, and the like).
	Result:	

Remarks	Element:	Include observations on works, site conditions, meetings or conversations on site, and the like.
	Result:	

Reviewed By: Craig Goss  	Corrective Action Required?	-	Re-Inspection Date:	-
	Corrective Action Details:			

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1496
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	16/06/2025
Owner:	-	Arrival / Departure Time:	13:00 / 14:00
Constructor:	-	Superintendent:	-

Image Description:



Galaxy A32

Image Description:

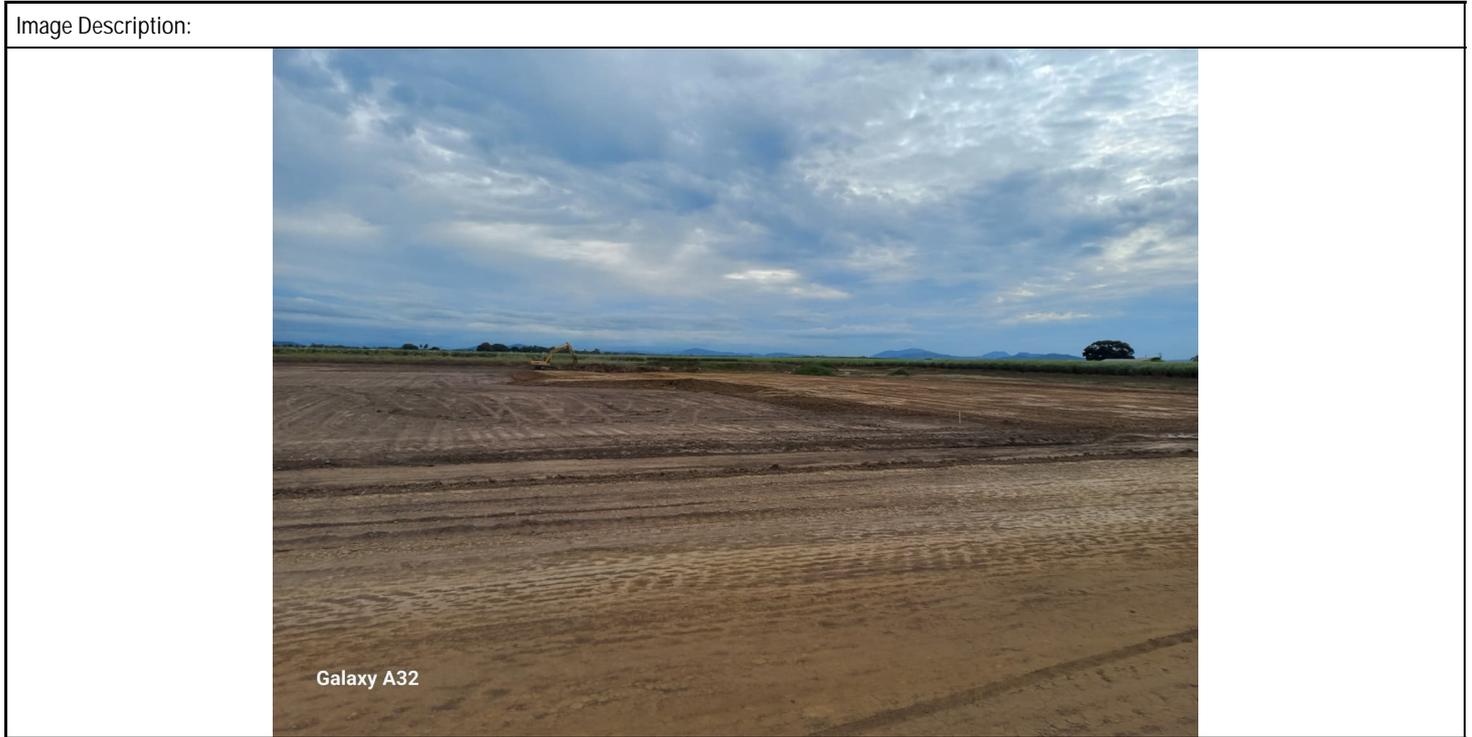


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Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
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Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1496
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	16/06/2025
Owner:	-	Arrival / Departure Time:	13:00 / 14:00
Constructor:	-	Superintendent:	-



Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
					

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1834
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	4/07/2025
Owner:	-	Arrival / Departure Time:	09:00 / 10:00
Constructor:	-	Superintendent:	-

Earthworks in current progress	Element:	
	Result:	

Materials testing	Element:	Refer to material, type, source, purpose of testing, sampling methods and locations, test types, sample reference numbers, results obtained, and to whom distributed.
	Result:	

Field density testing	Element:	Refer to types of test, section of work to which tests apply, test locations and levels, test reference numbers, results obtained, and to whom distributed.
	Result:	

Laboratory compaction testing	Element:	Refer to test methods, location of sampling, sample reference numbers, results obtained, and to whom distributed.
	Result:	

Works meeting geotechnical requirements	Element:	Refer to work type (e.g. stripping, subgrade compaction), basis of assessment (e.g. inspection, test reference numbers, and the like), extent of works apparently complying and requirements met.
	Result:	

Works failing to meet geotechnical requirements	Element:	Refer to work type (e.g., stripping, subgrade compaction), basis of assessment (e.g., inspection, test reference numbers, and the like), extent of work apparently failing to comply, requirements not met, action taken (instructions issued, retests ordered, and the like).
	Result:	Unsuitable material in Section 5 is being removed down to the underlying brown sandy clay.

Remarks	Element:	Include observations on works, site conditions, meetings or conversations on site, and the like.
	Result:	

Reviewed By: Craig Goss  	Corrective Action Required? -	Re-Inspection Date: -
	Corrective Action Details:	

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1834
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	4/07/2025
Owner:	-	Arrival / Departure Time:	09:00 / 10:00
Constructor:	-	Superintendent:	-

Image Description:



Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
					

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1834
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	7/07/2025
Owner:	-	Arrival / Departure Time:	08:00 / 09:00
Constructor:	-	Superintendent:	-

Earthworks in current progress	Element:	
	Result:	2 x CAT 623F Elevated Scraper's placing Fill Material in approved Section. 1 x CAT 825C Compactor is levelling and compacting the Fill Material.

Materials testing	Element:	Refer to material, type, source, purpose of testing, sampling methods and locations, test types, sample reference numbers, results obtained, and to whom distributed.
	Result:	

Field density testing	Element:	Refer to types of test, section of work to which tests apply, test locations and levels, test reference numbers, results obtained, and to whom distributed.
	Result:	Compaction Test's carried out on Section 5 Layer 1 6 x AS1289.5.8.1 (Field Density) 5676/T/25-1834 Sample 5676/S/25-8257 5676/T/25-1834 Sample 5676/S/25-8258 5676/T/25-1834 Sample 5676/S/25-8259 5676/T/25-1834 Sample 5676/S/25-8260 5676/T/25-1834 Sample 5676/S/25-8261 5676/T/25-1834 Sample 5676/S/25-8262

Laboratory compaction testing	Element:	Refer to test methods, location of sampling, sample reference numbers, results obtained, and to whom distributed.
	Result:	Laboratory testing carried out. 6 x AS1289.5.7.1 (Hilf Density Ratio) 5676/T/25-1834 Sample 5676/S/25-8257 5676/T/25-1834 Sample 5676/S/25-8258 5676/T/25-1834 Sample 5676/S/25-8259 5676/T/25-1834 Sample 5676/S/25-8260 5676/T/25-1834 Sample 5676/S/25-8261 5676/T/25-1834 Sample 5676/S/25-8262

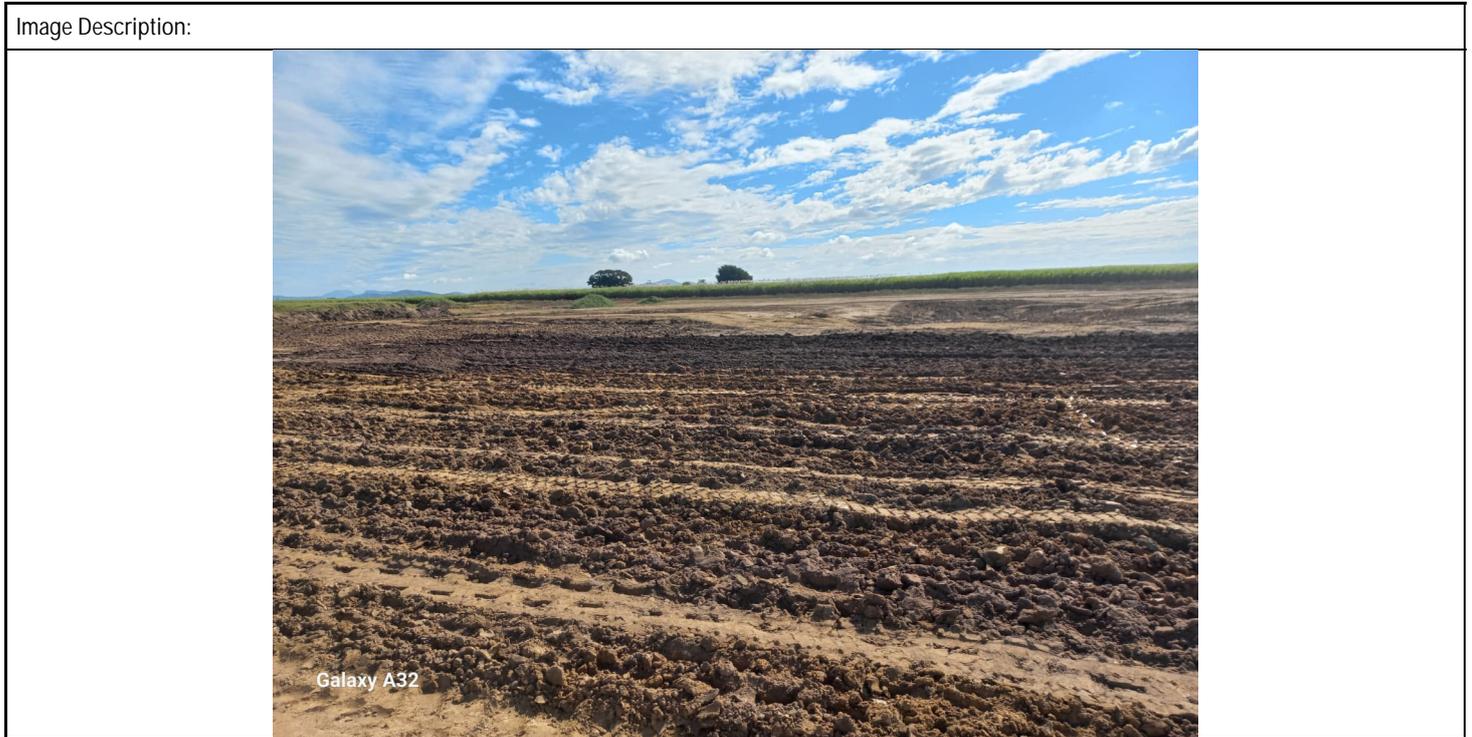
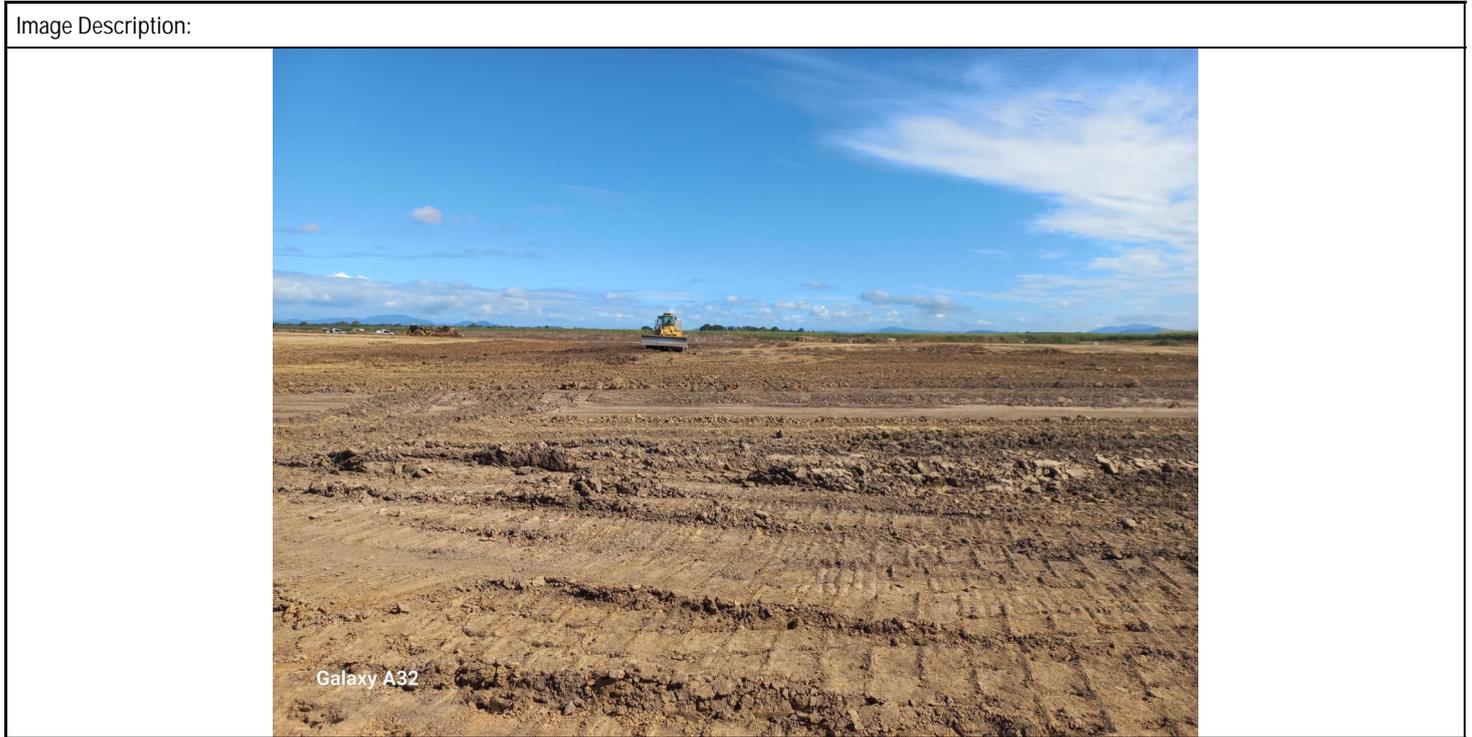
Works meeting geotechnical requirements	Element:	Refer to work type (e.g. stripping, subgrade compaction), basis of assessment (e.g. inspection, test reference numbers, and the like), extent of works apparently complying and requirements met.
	Result:	

Works failing to meet geotechnical requirements	Element:	Refer to work type (e.g., stripping, subgrade compaction), basis of assessment (e.g., inspection, test reference numbers, and the like), extent of work apparently failing to comply, requirements not met, action taken (instructions issued, retests ordered, and the like).
	Result:	

Remarks	Element:	Include observations on works, site conditions, meetings or conversations on site, and the like.
	Result:	

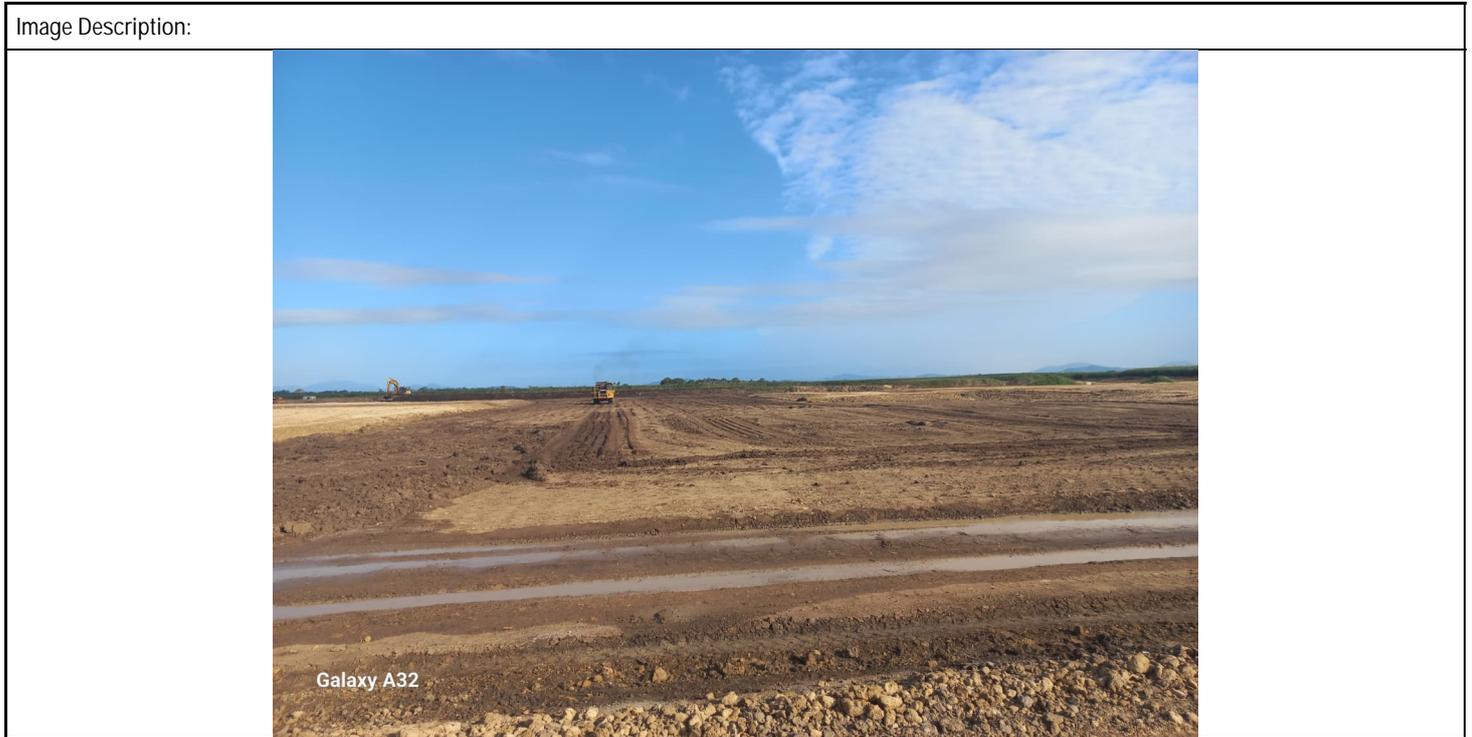
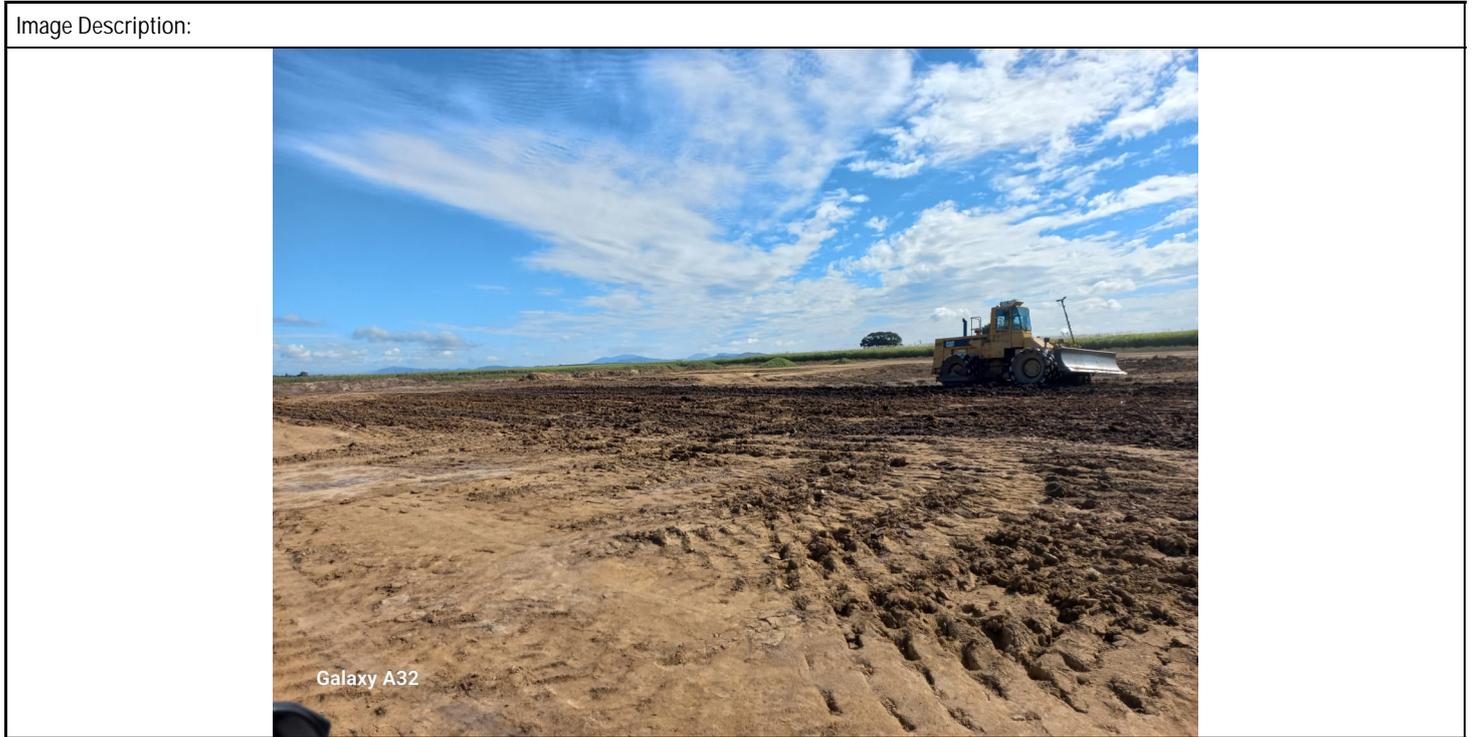
Reviewed By: Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
	 Corrective Action Details:			

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1834
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	7/07/2025
Owner:	-	Arrival / Departure Time:	08:00 / 09:00
Constructor:	-	Superintendent:	-



Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
					

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1834
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	7/07/2025
Owner:	-	Arrival / Departure Time:	08:00 / 09:00
Constructor:	-	Superintendent:	-



Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
					

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1872
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	8/07/2025
Owner:	-	Arrival / Departure Time:	09:00 / 10:00
Constructor:	-	Superintendent:	-

Earthworks in current progress	Element:	
	Result:	2 x CAT 623F Elevated Scraper's placing Fill Material in approved Section. 1 x CAT 825C Compactor is levelling and compacting the Fill Material.

Materials testing	Element:	Refer to material, type, source, purpose of testing, sampling methods and locations, test types, sample reference numbers, results obtained, and to whom distributed.
	Result:	

Field density testing	Element:	Refer to types of test, section of work to which tests apply, test locations and levels, test reference numbers, results obtained, and to whom distributed.
	Result:	Compaction Test's carried out on Section 5 Layer 2 6 x AS1289.5.8.1 (Field Density) 5676/T/25-1872 Sample 5676/S/25-8424 5676/T/25-1872 Sample 5676/S/25-8425 5676/T/25-1872 Sample 5676/S/25-8426 5676/T/25-1872 Sample 5676/S/25-8427 5676/T/25-1872 Sample 5676/S/25-8428 5676/T/25-1872 Sample 5676/S/25-8429

Laboratory compaction testing	Element:	Refer to test methods, location of sampling, sample reference numbers, results obtained, and to whom distributed.
	Result:	Laboratory testing carried out. 4 x AS1289.5.7.1 (Hilf Density Ratio) 5676/T/25-1872 Sample 5676/S/25-8424 5676/T/25-1872 Sample 5676/S/25-8425 5676/T/25-1872 Sample 5676/S/25-8426 5676/T/25-1872 Sample 5676/S/25-8427 5676/T/25-1872 Sample 5676/S/25-8428 5676/T/25-1872 Sample 5676/S/25-8429

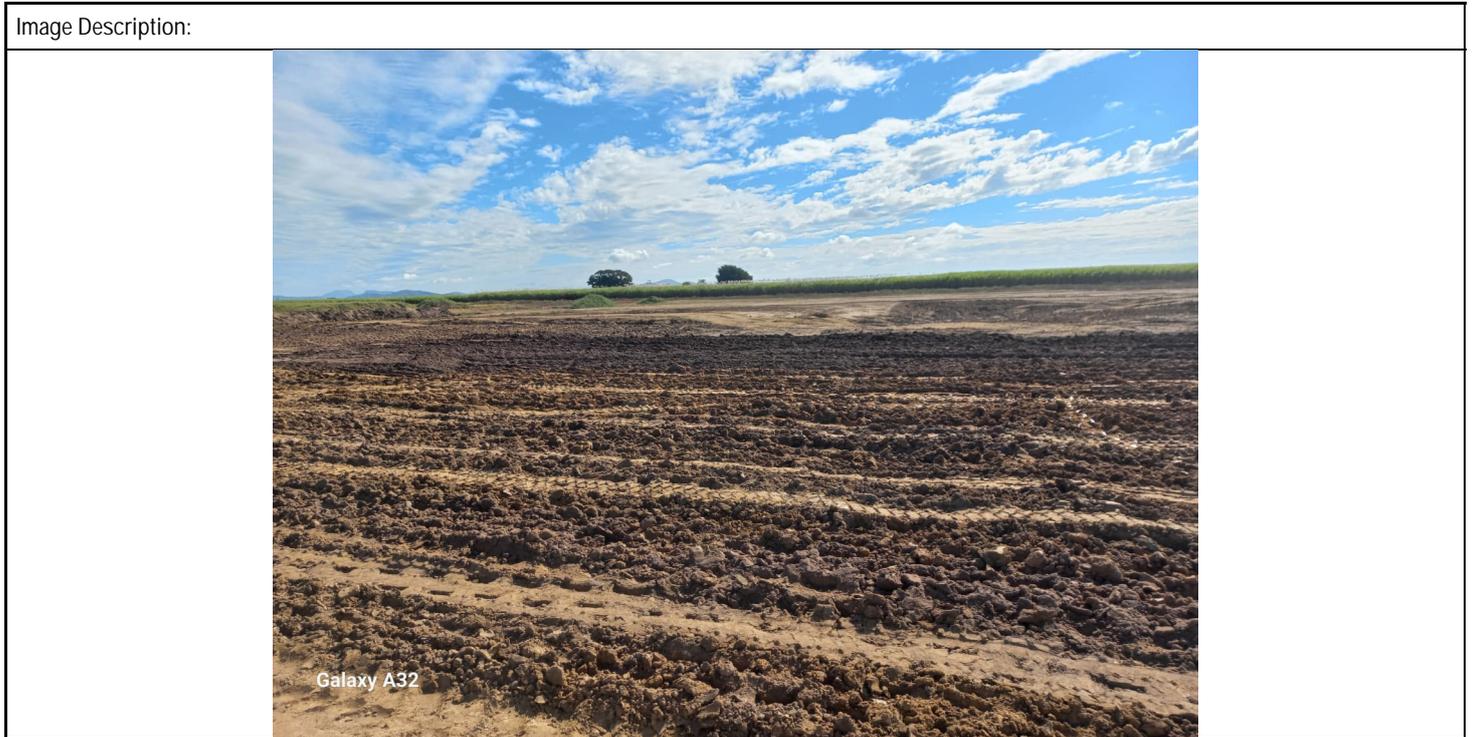
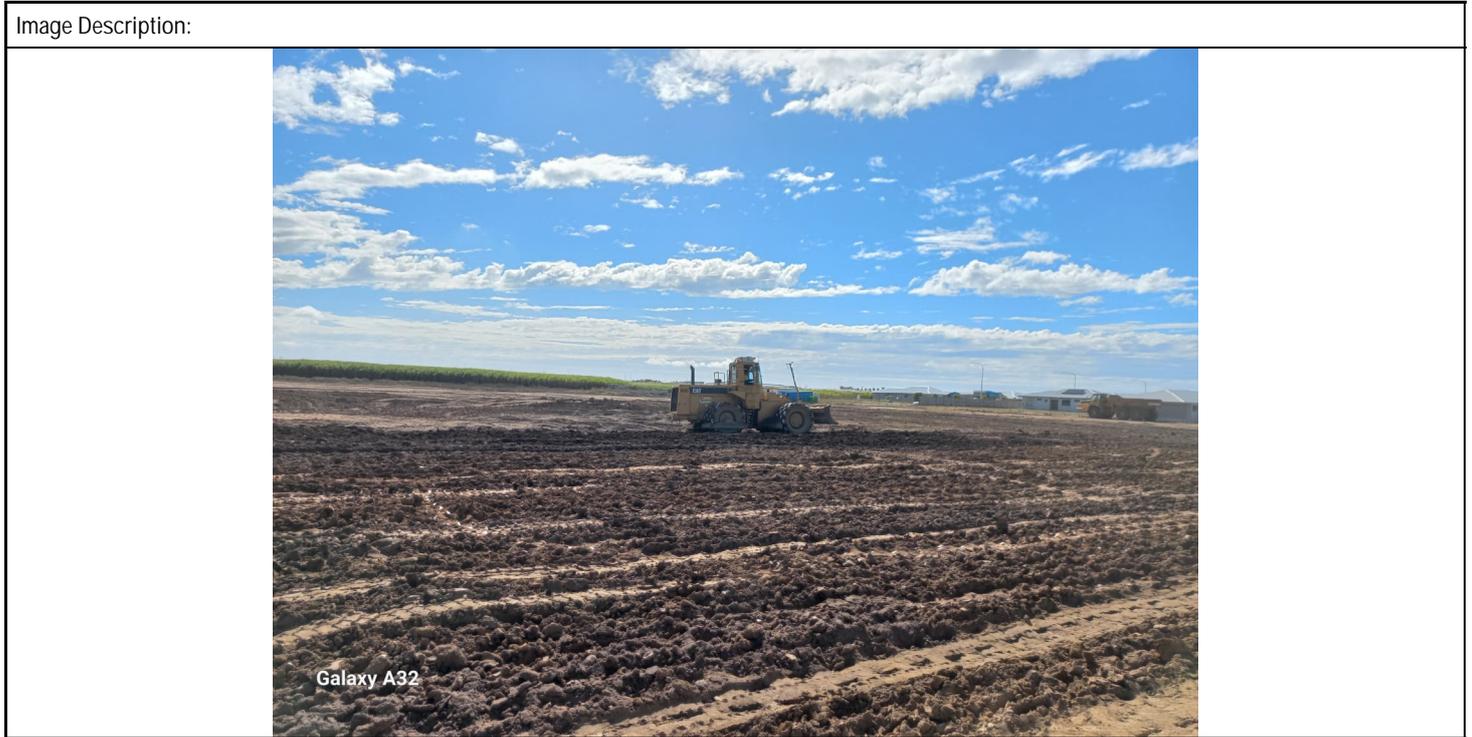
Works meeting geotechnical requirements	Element:	Refer to work type (e.g. stripping, subgrade compaction), basis of assessment (e.g. inspection, test reference numbers, and the like), extent of works apparently complying and requirements met.
	Result:	

Works failing to meet geotechnical requirements	Element:	Refer to work type (e.g., stripping, subgrade compaction), basis of assessment (e.g., inspection, test reference numbers, and the like), extent of work apparently failing to comply, requirements not met, action taken (instructions issued, retests ordered, and the like).
	Result:	

Remarks	Element:	Include observations on works, site conditions, meetings or conversations on site, and the like.
	Result:	

Reviewed By: Craig Goss  	Corrective Action Required? -	Re-Inspection Date: -
	Corrective Action Details:	

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1872
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	8/07/2025
Owner:	-	Arrival / Departure Time:	09:00 / 10:00
Constructor:	-	Superintendent:	-



Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
					

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1873
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	9/07/2025
Owner:	-	Arrival / Departure Time:	08:00 / 09:00
Constructor:	-	Superintendent:	-

Earthworks in current progress	Element:	
	Result:	No Earthworks currently ongoing

Materials testing	Element:	Refer to material, type, source, purpose of testing, sampling methods and locations, test types, sample reference numbers, results obtained, and to whom distributed.
	Result:	

Field density testing	Element:	Refer to types of test, section of work to which tests apply, test locations and levels, test reference numbers, results obtained, and to whom distributed.
	Result:	Compaction Test's carried out on Section 5 Layer 3 6 x AS1289.5.8.1 (Field Density) 5676/T/25-1873 Sample 5676/S/25-8430 5676/T/25-1873 Sample 5676/S/25-8431 5676/T/25-1873 Sample 5676/S/25-8432 5676/T/25-1873 Sample 5676/S/25-8433 5676/T/25-1873 Sample 5676/S/25-8434 5676/T/25-1873 Sample 5676/S/25-8435

Laboratory compaction testing	Element:	Refer to test methods, location of sampling, sample reference numbers, results obtained, and to whom distributed.
	Result:	Laboratory testing carried out. 6 x AS1289.5.7.1 (Hilf Density Ratio) 5676/T/25-1873 Sample 5676/S/25-8430 5676/T/25-1873 Sample 5676/S/25-8431 5676/T/25-1873 Sample 5676/S/25-8432 5676/T/25-1873 Sample 5676/S/25-8433 5676/T/25-1873 Sample 5676/S/25-8434 5676/T/25-1873 Sample 5676/S/25-8435

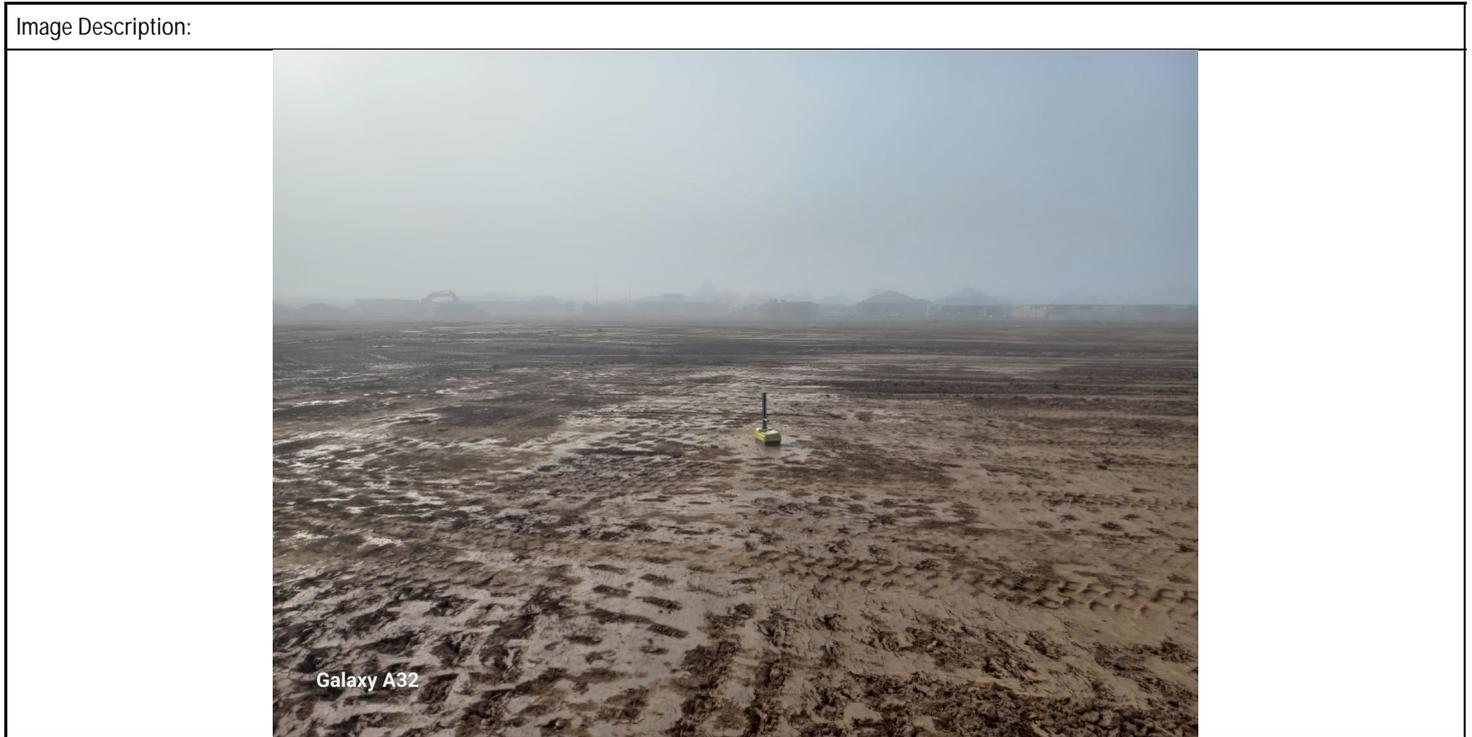
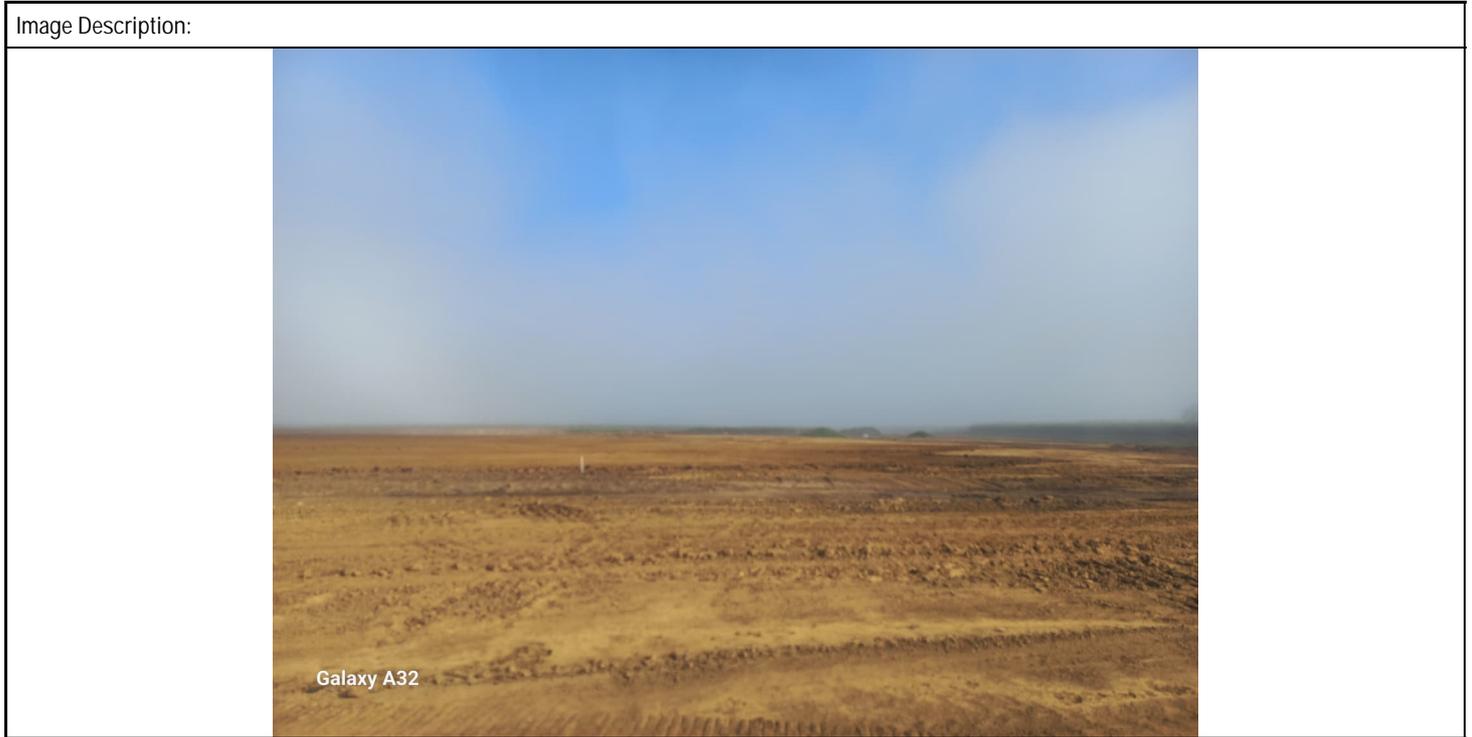
Works meeting geotechnical requirements	Element:	Refer to work type (e.g. stripping, subgrade compaction), basis of assessment (e.g. inspection, test reference numbers, and the like), extent of works apparently complying and requirements met.
	Result:	

Works failing to meet geotechnical requirements	Element:	Refer to work type (e.g., stripping, subgrade compaction), basis of assessment (e.g., inspection, test reference numbers, and the like), extent of work apparently failing to comply, requirements not met, action taken (instructions issued, retests ordered, and the like).
	Result:	

Remarks	Element:	Include observations on works, site conditions, meetings or conversations on site, and the like.
	Result:	

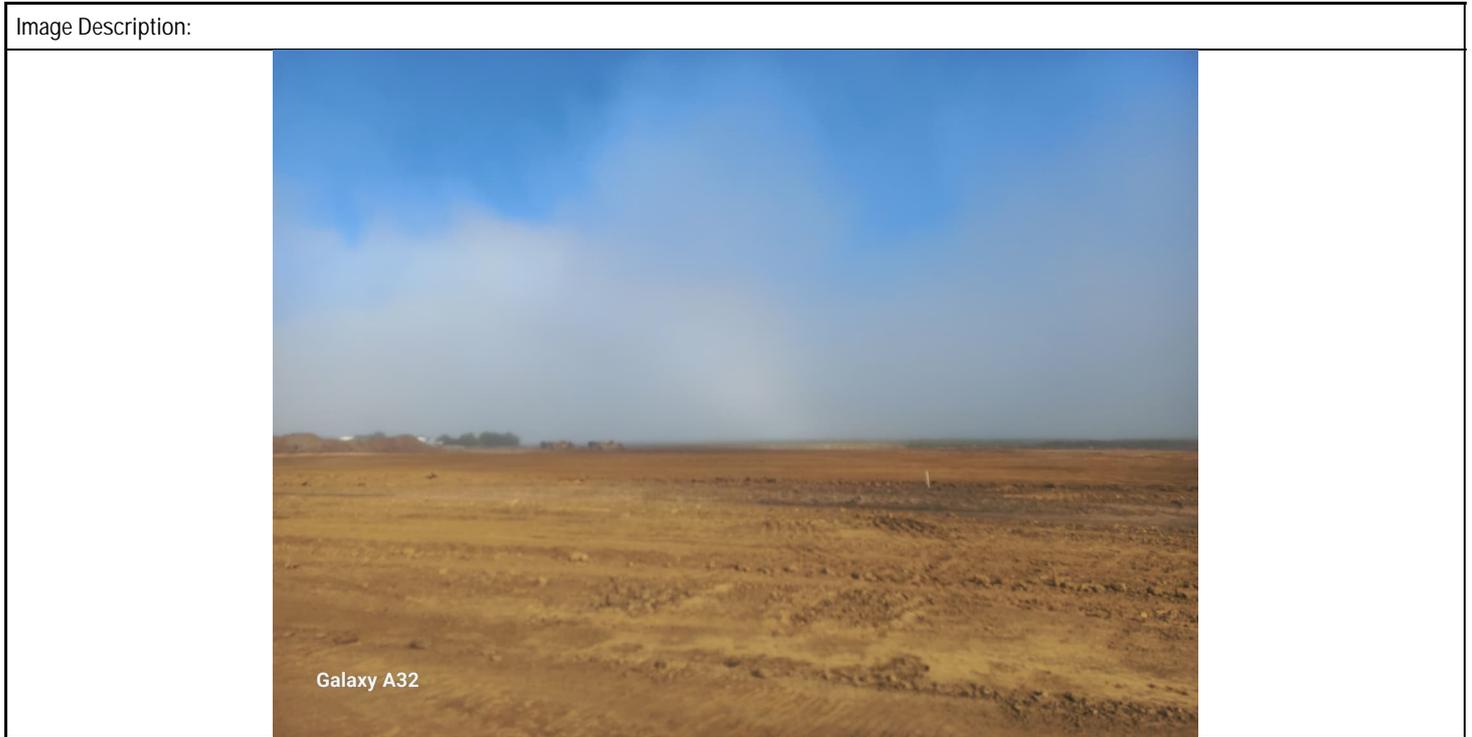
Reviewed By: Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
				
Corrective Action Details:				

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1873
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	9/07/2025
Owner:	-	Arrival / Departure Time:	08:00 / 09:00
Constructor:	-	Superintendent:	-



Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
					

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1873
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Richard Leigh Anaru
Client Reference:	-	Inspection Date:	9/07/2025
Owner:	-	Arrival / Departure Time:	08:00 / 09:00
Constructor:	-	Superintendent:	-



Reviewed By:	Craig Goss	Corrective Action Required?	-	Re-Inspection Date:	-
					

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1990
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Darren Milner
Client Reference:	Proof roll Lot 742 - Lot 747	Inspection Date:	23/07/2025
Owner:	Vassallo Constructions Pty Ltd	Arrival / Departure Time:	08:00 / 09:30
Constructor:	Vassallo Constructions Pty Ltd	Superintendent:	Dave Annear
Earthworks in current progress	Element:		
	Result:	Proof roll to the Lot area 742 - Lot 747 Testing of the GST Layer.	
Materials testing	Element:	Refer to material, type, source, purpose of testing, sampling methods and locations, test types, sample reference numbers, results obtained, and to whom distributed.	
	Result:	3 Compaction tests were taken on the GST lot area.	
Field density testing	Element:	Refer to types of test, section of work to which tests apply, test locations and levels, test reference numbers, results obtained, and to whom distributed.	
	Result:	5676/S/25-8931 AS 1289.5.8.1 5676/S/25-8932 AS 1289.5.8.1 5676/S/25-8933 AS 1289.5.8.1	
Laboratory compaction testing	Element:	Refer to test methods, location of sampling, sample reference numbers, results obtained, and to whom distributed.	
	Result:	5676/S/25-8931 AS 1289.5.7.1 5676/S/25-8932 AS 1289.5.7.1 5676/S/25-8933 AS 1289.5.7.1	
Works meeting geotechnical requirements	Element:	Refer to work type (e.g. stripping, subgrade compaction), basis of assessment (e.g. inspection, test reference numbers, and the like), extent of works apparently complying and requirements met.	
	Result:	Lot 742 743,744 all passed the proof roll inspection using the onsite water truck	
Works failing to meet geotechnical requirements	Element:	Refer to work type (e.g., stripping, subgrade compaction), basis of assessment (e.g., inspection, test reference numbers, and the like), extent of work apparently failing to comply, requirements not met, action taken (instructions issued, retests ordered, and the like).	
	Result:	Lots 745-747 Failed the proof roll, having areas of deflection in the area.	
Remarks	Element:	Include observations on works, site conditions, meetings or conversations on site, and the like.	
	Result:	Client informed to re-work the failed area, before conducting another proof roll in the area. Lots 742-744 were passing the proof roll test.	

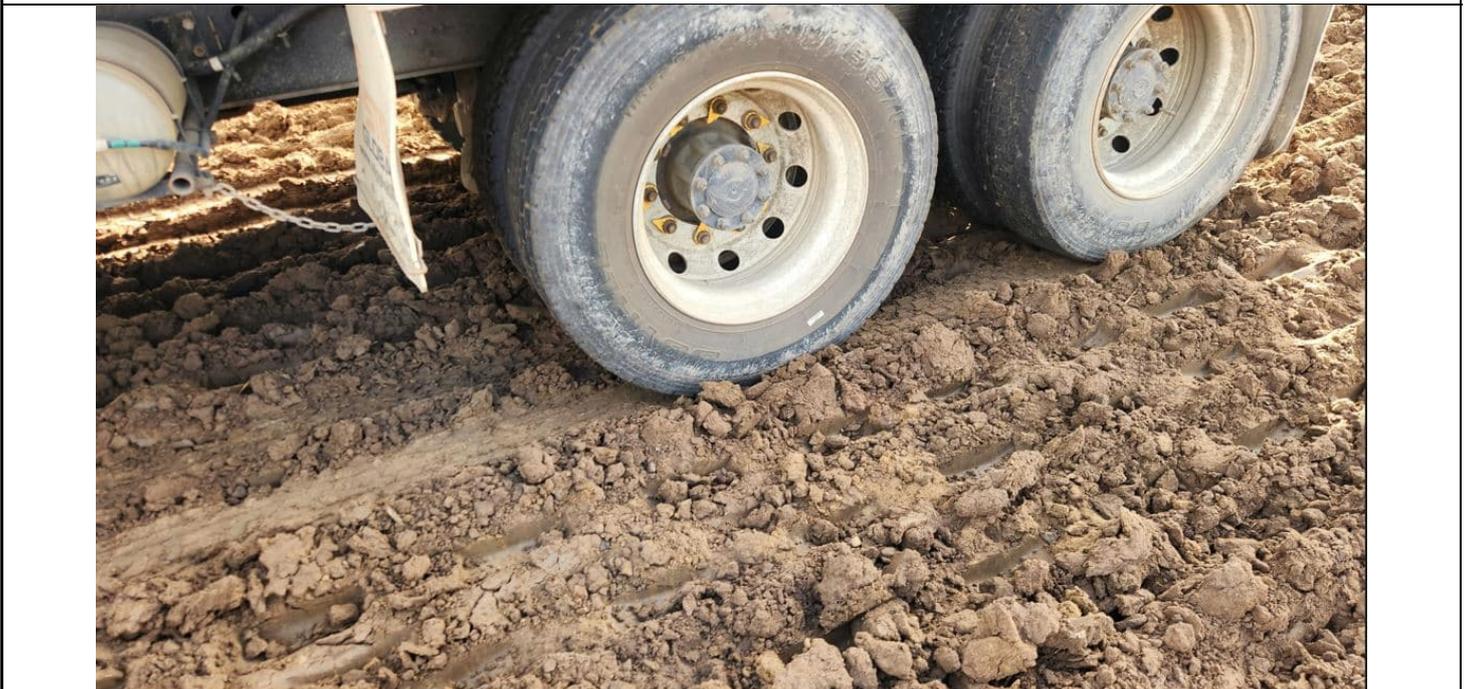
Reviewed By: Craig Goss  	Corrective Action Required? Yes	Re-Inspection Date: 23/07/2025
	Corrective Action Details: Proof roll the former failed area, Lots 745 - 747.	

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1990
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Darren Milner
Client Reference:	Proof roll Lot 742 - Lot 747	Inspection Date:	23/07/2025
Owner:	Vassallo Constructions Pty Ltd	Arrival / Departure Time:	08:00 / 09:30
Constructor:	Vassallo Constructions Pty Ltd	Superintendent:	Dave Annear

Image Description: Proof roll 1 Failed area



Image Description: Proof roll 2 Failed area



Reviewed By: Craig Goss  	Corrective Action Required? Yes	Re-Inspection Date: 23/07/2025
	Proof roll the former failed area, Lots 745 - 747.	

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1990
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Darren Milner
Client Reference:	Proof roll Lot 742 - Lot 747	Inspection Date:	23/07/2025
Owner:	Vassallo Constructions Pty Ltd	Arrival / Departure Time:	08:00 / 09:30
Constructor:	Vassallo Constructions Pty Ltd	Superintendent:	Dave Annear

Image Description: Proof roll 3 Failed area



Image Description: Proof roll 4 Passed area



Reviewed By: Craig Goss 	Corrective Action Required? Yes	Re-Inspection Date: 23/07/2025
	Proof roll the former failed area, Lots 745 - 747.	

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1990
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Darren Milner
Client Reference:	Proof roll Lot 742 - Lot 747	Inspection Date:	23/07/2025
Owner:	Vassallo Constructions Pty Ltd	Arrival / Departure Time:	08:00 / 09:30
Constructor:	Vassallo Constructions Pty Ltd	Superintendent:	Dave Annear

Image Description: Proof roll Passed area



Reviewed By: Craig Goss  	Corrective Action Required? Yes	Re-Inspection Date: 23/07/2025
	Proof roll the former failed area, Lots 745 - 747.	

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1990
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Darren Milner
Client Reference:	2nd Proof roll, Lot 744 - L747	Inspection Date:	23/07/2025
Owner:	Vassallo Constructions Pty Ltd	Arrival / Departure Time:	13:00 / 14:00
Constructor:	Vassallo Constructions Pty Ltd	Superintendent:	Dave Annear

Earthworks in current progress	Element:	
	Result:	Proof roll to Lot 745 - Lot 747 using the onsite water truck.

Materials testing	Element:	Refer to material, type, source, purpose of testing, sampling methods and locations, test types, sample reference numbers, results obtained, and to whom distributed.
	Result:	N/A

Field density testing	Element:	Refer to types of test, section of work to which tests apply, test locations and levels, test reference numbers, results obtained, and to whom distributed.
	Result:	N/A

Laboratory compaction testing	Element:	Refer to test methods, location of sampling, sample reference numbers, results obtained, and to whom distributed.
	Result:	N/A

Works meeting geotechnical requirements	Element:	Refer to work type (e.g. stripping, subgrade compaction), basis of assessment (e.g. inspection, test reference numbers, and the like), extent of works apparently complying and requirements met.
	Result:	Proof roll to area Lot 745 - Lot 747 passed the proof roll test, using the onsite water truck.

Works failing to meet geotechnical requirements	Element:	Refer to work type (e.g., stripping, subgrade compaction), basis of assessment (e.g., inspection, test reference numbers, and the like), extent of work apparently failing to comply, requirements not met, action taken (instructions issued, retests ordered, and the like).
	Result:	Nil

Remarks	Element:	Include observations on works, site conditions, meetings or conversations on site, and the like.
	Result:	Client was there and advised the proof roll has passed the test and could continue with the next lift of fill material in that area.

Reviewed By: Craig Goss  	Corrective Action Required? No	Re-Inspection Date: -
	Corrective Action Details:	

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1990
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Darren Milner
Client Reference:	2nd Proof roll, Lot 744 - L747	Inspection Date:	23/07/2025
Owner:	Vassallo Constructions Pty Ltd	Arrival / Departure Time:	13:00 / 14:00
Constructor:	Vassallo Constructions Pty Ltd	Superintendent:	Dave Annear

Image Description: Proof roll (2nd) Lot 745 - 747



Image Description: Proof roll (2nd) Lot 745 - 747



Reviewed By:	Craig Goss	Corrective Action Required?	No	Re-Inspection Date:	-
					

Client:	Vassallo Constructions Pty Ltd	Test Request Number:	5676/T/25-1990
Project:	0328- The Waters Ooralea Stage 7	Project Number:	5676/P/25-1
Sub-Project:	-	Inspector:	Darren Milner
Client Reference:	2nd Proof roll, Lot 744 - L747	Inspection Date:	23/07/2025
Owner:	Vassallo Constructions Pty Ltd	Arrival / Departure Time:	13:00 / 14:00
Constructor:	Vassallo Constructions Pty Ltd	Superintendent:	Dave Annear

Image Description: Proof roll (2nd) Lot 745 - 747



Reviewed By:	Craig Goss	Corrective Action Required?	No	Re-Inspection Date:	-
					

0328-The Waters,  
Ooralea Stage 7

APPENDIX

B

FIELD DENSITY TEST  
RESULTS

## LOT REPORT - WET DENSITY RATIO

<p>Client: Vassallo Constructions Pty Ltd</p> <p>Client Address: PO BOX 8158, MT PLEASANT</p> <p>Project: 0328- The Waters Ooralea Stage 7</p> <p>Location: Mackay</p> <p>Supplied To: n/a</p> <p>Area Description:</p>	<p>Report Number: 5676/R/25-1741-1</p> <p>Project Number: 5676/P/25-1</p> <p>Lot Number:</p> <p>Internal Test Request: 5676/T/25-1062</p> <p>Client Reference/s:</p> <p>Report Date / Page: 16/05/2025 <span style="float: right;">Page 1 of 3</span></p>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	5676/S/25-4545	5676/S/25-4546	5676/S/25-4547	5676/S/25-4548
ID / Client ID	-	-	-	-
Lot Number	-	-	-	-
Date / Time Tested	13/05/2025 09:30	13/05/2025 09:35	13/05/2025 09:40	13/05/2025 09:45
Material Source	Existing Material	Existing Material	Existing Material	Existing Material
Material Type	Insitu Material	Insitu Material	Insitu Material	Insitu Material
Sampling Method	AS1289.1.2.1 Cl 6.4a	AS1289.1.2.1 Cl 6.4a	AS1289.1.2.1 Cl 6.4a	AS1289.1.2.1 Cl 6.4a
Depths: Test / Nom / Actual (mm)	150 / - / 150	150 / - / 150	150 / - / 150	150 / - / 150
Standard or Modified	Standard	Standard	Standard	Standard
Site Sketch No.	5676/T/25-1062	5676/T/25-1062	5676/T/25-1062	5676/T/25-1062
Test No.	5676/S/25-4545	5676/S/25-4546	5676/S/25-4547	5676/S/25-4548
	GST	GST	GST	GST
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	5676/S/25-4545	5676/S/25-4546	5676/S/25-4547	5676/S/25-4548
Sample Description	Existing	Existing	Existing	Existing
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	6.5	7.5	7.4	12.3
<b>Adjusted / Moist. Variation (%)</b>	2.5	2.0	2.0	2.0
Optimum Moisture Content (%)	8.5	9.5	9.5	14.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
<b>Moisture Ratio (%)</b>	74.5	78.5	78.5	84.5
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.10	2.00	2.07	2.04
Field Dry Density (t/m <sup>3</sup> )	1.97	1.87	1.92	1.81
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.15	2.08	2.07	2.07
Density Ratio Required (%)	-	-	-	-
<b>Hilf Density Ratio (%)</b>	97.5	96.0	100.0	98.0

Remarks

<p>Accredited for compliance with ISO/IEC 17025 – Testing</p>	
 <p>Accreditation Number: 1986 Corporate Site Number: 5676</p>	<p>Approved Signatory: Craig Goss Form ID: W5ASMRRepSum Rev 4</p>

## LOT REPORT - WET DENSITY RATIO

Client: Vassallo Constructions Pty Ltd Client Address: PO BOX 8158, MT PLEASANT Project: 0328- The Waters Ooralea Stage 7 Location: Mackay Supplied To: n/a Area Description:	Report Number: 5676/R/25-1741-1 Project Number: 5676/P/25-1 Lot Number: Internal Test Request: 5676/T/25-1062 Client Reference/s: Report Date / Page: 16/05/2025 <span style="float: right;">Page 2 of 3</span>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	5676/S/25-4549	5676/S/25-4550	
ID / Client ID	-	-	
Lot Number	-	-	
Date / Time Tested	13/05/2025 09:50	13/05/2025 09:55	
Material Source	Existing Material	Existing Material	
Material Type	Insitu Material	Insitu Material	
Sampling Method	AS1289.1.2.1 Cl 6.4a	AS1289.1.2.1 Cl 6.4a	
Depths: Test / Nom / Actual (mm)	150 / - / 150	150 / - / 150	
Standard or Modified	Standard	Standard	
Site Sketch No.	5676/T/25-1062	5676/T/25-1062	
Test No.	5676/S/25-4549	5676/S/25-4550	
	GST	GST	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	
Sample Oversize (%)	0	0	
Compaction Sample Number	5676/S/25-4549	5676/S/25-4550	
Sample Description	Fill	Fill	
<i>Moisture Test Results:</i>			
Field Moisture Content (%)	11.0	9.1	
<b>Adjusted / Moist. Variation (%)</b>	1.5	1.5	
Optimum Moisture Content (%)	12.5	10.5	
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	
<b>Moisture Ratio (%)</b>	89.0	87.5	
<i>Density Test Results:</i>			
Field Wet Density (t/m <sup>3</sup> )	2.10	2.06	
Field Dry Density (t/m <sup>3</sup> )	1.89	1.89	
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.11	2.09	
Density Ratio Required (%)	-	-	
<b>Hilf Density Ratio (%)</b>	99.5	98.5	

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing  	<table style="width: 100%;"> <tr> <td style="width: 30%;">Accreditation Number:</td> <td>1986</td> </tr> <tr> <td>Corporate Site Number:</td> <td>5676</td> </tr> </table> <div style="text-align: right; margin-top: 20px;">             Approved Signatory: Craig Goss            Form ID: W5ASMRRepSum Rev 4         </div>	Accreditation Number:	1986	Corporate Site Number:	5676
Accreditation Number:	1986				
Corporate Site Number:	5676				

## LOT REPORT - WET DENSITY RATIO

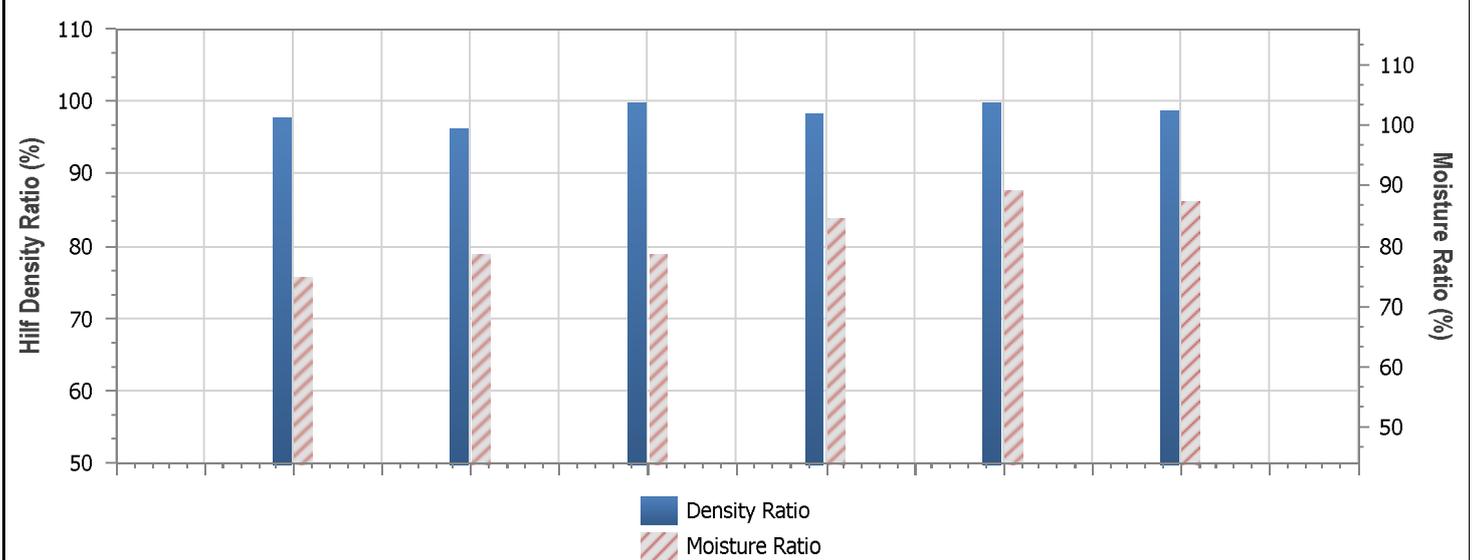
Client: Vassallo Constructions Pty Ltd Client Address: PO BOX 8158, MT PLEASANT Project: 0328- The Waters Ooralea Stage 7 Location: Mackay Supplied To: n/a Area Description:	Report Number: 5676/R/25-1741-1 Project Number: 5676/P/25-1 Lot Number: Internal Test Request: 5676/T/25-1062 Client Reference/s: Report Date / Page: 16/05/2025 <span style="float: right;">Page 3 of 3</span>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
Statistical Analysis Test Method:	Lot Average (Lot average calculations are not covered by endorsement)

### Nuclear Gauge Calibration Details

Calibration Number	-	Material Source	-
Calibration Last Updated	-	Material Type	-
Nominated Calibration Layer Depth (mm)	-		

### LOT TEST RESULT SUMMARY



Tests in Lot = 6	Lot Minimum	Lot Maximum	Lot Mean	Standard Deviation
Moisture Ratio (%)	74.7	89.1	82.1	5.688
Half Density Ratio (%)	96.2	99.8	98.4	1.335

Lot Number:	-
Mean Moisture Ratio (%):	82.1
Mean Density Ratio (%):	98.4

Remarks

	Accredited for compliance with ISO/IEC 17025 – Testing	
Accreditation Number: 1986 Corporate Site Number: 5676		Approved Signatory: Craig Goss Form ID: W5ASMRRepSum Rev 4

## LOT REPORT - WET DENSITY RATIO

<p>Client: Vassallo Constructions Pty Ltd</p> <p>Client Address: PO BOX 8158, MT PLEASANT</p> <p>Project: 0328- The Waters Ooralea Stage 7</p> <p>Location: Mackay</p> <p>Supplied To: n/a</p> <p>Area Description:</p>	<p>Report Number: 5676/R/25-2408-1</p> <p>Project Number: 5676/P/25-1</p> <p>Lot Number:</p> <p>Internal Test Request: 5676/T/25-1410</p> <p>Client Reference/s: TR: 6 (WR17174) 02/06/2025</p> <p>Report Date / Page: 18/06/2025 <span style="float: right;">Page 1 of 3</span></p>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	5676/S/25-6090	5676/S/25-6091	5676/S/25-6092	5676/S/25-6093
ID / Client ID	GST	GST	GST	GST
Lot Number	-	-	-	-
Date / Time Tested	2/06/2025 08:00	2/06/2025 08:05	2/06/2025 08:10	2/06/2025 08:15
Material Source	Insitu Material	Insitu Material	Insitu Material	Insitu Material
Material Type	Existing	Existing	Existing	Existing
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	150 / - / 175	150 / - / 175	150 / - / 175	150 / - / 175
Standard or Modified	Standard	Standard	Standard	Standard
Grid				
Easting (m)	722532.1	722491.4	722446.1	722449.6
Northing (m)	7654009.3	7654006.2	7654001.2	7654029.6
RL	6.8	6.8	6.8	6.8
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	5676/S/25-6090	5676/S/25-6091	5676/S/25-6092	5676/S/25-6093
Sample Description	Fill	Fill	Fill	Fill
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	26.6	27.1	24.5	25.9
<b>Adjusted / Moist. Variation (%)</b>	1.5	1.5	1.5	1.5
Optimum Moisture Content (%)	28.0	29.0	26.0	27.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
<b>Moisture Ratio (%)</b>	94.0	94.0	94.5	94.0
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.01	1.97	1.97	2.02
Field Dry Density (t/m <sup>3</sup> )	1.59	1.55	1.58	1.60
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.03	1.98	1.99	2.03
Density Ratio Required (%)	95	95	95	95
<b>Half Density Ratio (%)</b>	98.5	99.0	99.0	99.0

(Moisture Ratio = (100 x Field Moisture Content) / Optimum Moisture Content. Moisture Ratio calculation not covered by NATA endorsement)

Remarks

<p style="text-align: center;">Accredited for compliance with ISO/IEC 17025 – Testing</p>  <p>Accreditation Number: 1986 Corporate Site Number: 5676</p>	 <p>Approved Signatory: Rawiri Gray Form ID: W5ASMRRepSum Rev 4</p>
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## LOT REPORT - WET DENSITY RATIO

Client: Vassallo Constructions Pty Ltd	Report Number: 5676/R/25-2408-1
Client Address: PO BOX 8158, MT PLEASANT	Project Number: 5676/P/25-1
Project: 0328- The Waters Ooralea Stage 7	Lot Number:
Location: Mackay	Internal Test Request: 5676/T/25-1410
Supplied To: n/a	Client Reference/s: TR: 6 (WR17174) 02/06/2025
Area Description:	Report Date / Page: 18/06/2025 <span style="float: right;">Page 2 of 3</span>

Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	5676/S/25-6094	5676/S/25-6095	
ID / Client ID	GST	GST	
Lot Number	-	-	
Date / Time Tested	2/06/2025 08:20	2/06/2025 08:25	
Material Source	In situ Material	In situ Material	
Material Type	Existing	Existing	
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	
Depths: Test / Nom / Actual (mm)	150 / - / 175	150 / - / 175	
Standard or Modified	Standard	Standard	
Grid			
Easting (m)	722493.3	722538.9	
Northing (m)	7654033.4	7654034.5	
RL	6.8	6.7	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	
Sample Oversize (%)	0	0	
Compaction Sample Number	5676/S/25-6094	5676/S/25-6095	
Sample Description	Fill	Fill	
<b>Moisture Test Results:</b>			
Field Moisture Content (%)	26.3	25.4	
<b>Adjusted / Moist. Variation (%)</b>	1.5	1.5	
Optimum Moisture Content (%)	28.0	27.0	
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	
<b>Moisture Ratio (%)</b>	95.0	93.5	
<b>Density Test Results:</b>			
Field Wet Density (t/m <sup>3</sup> )	2.02	1.96	
Field Dry Density (t/m <sup>3</sup> )	1.60	1.56	
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.04	2.00	
Density Ratio Required (%)	95	95	
<b>Hilf Density Ratio (%)</b>	99.0	98.0	

(Moisture Ratio = (100 x Field Moisture Content) / Optimum Moisture Content. Moisture Ratio calculation not covered by NATA endorsement)

Remarks
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<p>Accredited for compliance with ISO/IEC 17025 – Testing</p>  <p>Accreditation Number: 1986 Corporate Site Number: 5676</p>	 <p>Approved Signatory: Rawiri Gray Form ID: W5ASMRRepSum Rev 4</p>
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## LOT REPORT - WET DENSITY RATIO

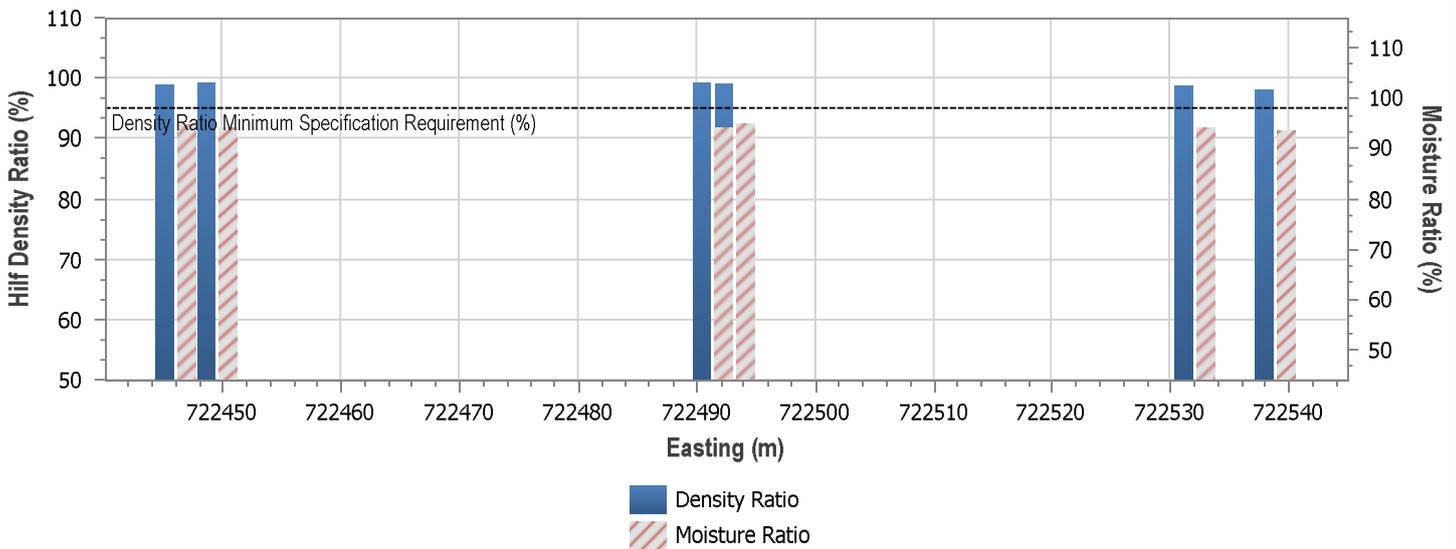
Client: Vassallo Constructions Pty Ltd Client Address: PO BOX 8158, MT PLEASANT Project: 0328- The Waters Ooralea Stage 7 Location: Mackay Supplied To: n/a Area Description:	Report Number: 5676/R/25-2408-1 Project Number: 5676/P/25-1 Lot Number: Internal Test Request: 5676/T/25-1410 Client Reference/s: TR: 6 (WR17174) 02/06/2025 Report Date / Page: 18/06/2025 <span style="float: right;">Page 3 of 3</span>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
Statistical Analysis Test Method:	Lot Average (Lot average calculations are not covered by endorsement)

### Nuclear Gauge Calibration Details

Calibration Number	-	Material Source	-
Calibration Last Updated	-	Material Type	-
Nominated Calibration Layer Depth (mm)	-		

### LOT TEST RESULT SUMMARY



Tests in Lot = 6	Lot Minimum	Lot Maximum	Lot Mean	Standard Deviation
Moisture Ratio (%)	93.5	94.8	94.3	0.468
Half Density Ratio (%)	98.0	99.2	98.8	0.417

Lot Number:	-
Mean Moisture Ratio (%):	94.2
Mean Density Ratio (%):	98.8

Remarks

	Accredited for compliance with ISO/IEC 17025 – Testing	
	Accreditation Number: 1986 Corporate Site Number: 5676	Approved Signatory: Rawiri Gray Form ID: W5ASMRRepSum Rev 4

## LOT REPORT - WET DENSITY RATIO

<p>Client: Vassallo Constructions Pty Ltd</p> <p>Client Address: PO BOX 8158, MT PLEASANT</p> <p>Project: 0328- The Waters Ooralea Stage 7</p> <p>Location: Mackay</p> <p>Supplied To: n/a</p> <p>Area Description:</p>	<p>Report Number: 5676/R/25-2257-1</p> <p>Project Number: 5676/P/25-1</p> <p>Lot Number:</p> <p>Internal Test Request: 5676/T/25-1411</p> <p>Client Reference/s:</p> <p>Report Date / Page: 10/06/2025 <span style="float: right;">Page 1 of 4</span></p>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	5676/S/25-6096	5676/S/25-6097	5676/S/25-6098	5676/S/25-6099
ID / Client ID	-	-	-	-
Lot Number	-	-	-	-
Date / Time Tested	4/06/2025 12:00	4/06/2025 12:00	4/06/2025 12:00	4/06/2025 12:00
Material Source	Onsite	Onsite	Onsite	Onsite
Material Type	General Fill	General Fill	General Fill	General Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	225 / 250 / 250	225 / 250 / 250	225 / 250 / 250	225 / 250 / 250
Standard or Modified	Standard	Standard	Standard	Standard
Grid				
Easting (m)	722442.1	722493.3	722548.5	722491.7
Northing (m)	7653952.6	7653956.2	7653967.1	7653982.0
RL	7.3	7.2	7.2	7.1
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	5676/S/25-6096	5676/S/25-6097	5676/S/25-6098	5676/S/25-6099
Sample Description	Fill	Fill	Fill	Fill
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	17.0	17.8	17.1	18.3
<b>Adjusted / Moist. Variation (%)</b>	2.0	2.0	0.5	0.0
Optimum Moisture Content (%)	19.0	19.5	17.5	18.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
<b>Moisture Ratio (%)</b>	90.0	90.5	97.0	99.0
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	1.99	2.02	2.07	2.05
Field Dry Density (t/m <sup>3</sup> )	1.70	1.71	1.77	1.73
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.03	2.06	2.10	2.11
Density Ratio Required (%)	-	-	-	-
<b>Hilf Density Ratio (%)</b>	98.0	98.0	98.5	97.0

(Moisture Ratio = (100 x Field Moisture Content) / Optimum Moisture Content. Moisture Ratio calculation not covered by NATA endorsement)

Remarks

<p>Accredited for compliance with ISO/IEC 17025 – Testing</p>  <p>Accreditation Number: 1986 Corporate Site Number: 5676</p>	 <p>Approved Signatory: Craig Goss Form ID: W5ASMRRepSum Rev 4</p>
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## LOT REPORT - WET DENSITY RATIO

<p>Client: Vassallo Constructions Pty Ltd</p> <p>Client Address: PO BOX 8158, MT PLEASANT</p> <p>Project: 0328- The Waters Ooralea Stage 7</p> <p>Location: Mackay</p> <p>Supplied To: n/a</p> <p>Area Description:</p>	<p>Report Number: 5676/R/25-2257-1</p> <p>Project Number: 5676/P/25-1</p> <p>Lot Number:</p> <p>Internal Test Request: 5676/T/25-1411</p> <p>Client Reference/s:</p> <p>Report Date / Page: 10/06/2025 <span style="float: right;">Page 2 of 4</span></p>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	5676/S/25-6100	5676/S/25-6101	5676/S/25-6102	5676/S/25-6103
ID / Client ID	-	-	-	-
Lot Number	-	-	-	-
Date / Time Tested	4/06/2025 12:00	4/06/2025 12:00	4/06/2025 12:00	4/06/2025 12:00
Material Source	Onsite	Onsite	Onsite	Onsite
Material Type	General Fill	General Fill	General Fill	General Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	225 / 250 / 250	225 / 250 / 250	225 / 250 / 250	225 / 250 / 250
Standard or Modified	Standard	Standard	Standard	Standard
Grid				
Easting (m)	722448.3	722451.4	722506.7	722538.0
Northing (m)	7653980.2	7654013.1	7654007.6	7654016.4
RL	7.0	7.0	7.1	6.9
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	5676/S/25-6100	5676/S/25-6101	5676/S/25-6102	5676/S/25-6103
Sample Description	Fill	Fill	Fill	Fill
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	17.1	17.3	17.6	17.4
<b>Adjusted / Moist. Variation (%)</b>	0.0	0.5	0.5	0.0
Optimum Moisture Content (%)	17.0	17.5	18.0	17.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Wetter than OMC)
<b>Moisture Ratio (%)</b>	99.5	98.0	96.5	101.0
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.07	2.06	2.06	2.03
Field Dry Density (t/m <sup>3</sup> )	1.77	1.75	1.75	1.73
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.09	2.05	2.10	2.09
Density Ratio Required (%)	-	-	-	-
<b>Hilf Density Ratio (%)</b>	99.5	100.5	98.5	97.0

(Moisture Ratio = (100 x Field Moisture Content) / Optimum Moisture Content. Moisture Ratio calculation not covered by NATA endorsement)

Remarks

<div style="text-align: center;">  <p>Accredited for compliance with ISO/IEC 17025 – Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 5676</p> </div>	 <p>Approved Signatory: Craig Goss Form ID: W5ASMRRepSum Rev 4</p>
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## LOT REPORT - WET DENSITY RATIO

<p>Client: Vassallo Constructions Pty Ltd</p> <p>Client Address: PO BOX 8158, MT PLEASANT</p> <p>Project: 0328- The Waters Ooralea Stage 7</p> <p>Location: Mackay</p> <p>Supplied To: n/a</p> <p>Area Description:</p>	<p>Report Number: 5676/R/25-2257-1</p> <p>Project Number: 5676/P/25-1</p> <p>Lot Number:</p> <p>Internal Test Request: 5676/T/25-1411</p> <p>Client Reference/s:</p> <p>Report Date / Page: 10/06/2025 <span style="float: right;">Page 3 of 4</span></p>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	5676/S/25-6104	5676/S/25-6105	
ID / Client ID	-	-	
Lot Number	-	-	
Date / Time Tested	4/06/2025 12:00	4/06/2025 12:00	
Material Source	Onsite	Onsite	
Material Type	General Fill	General Fill	
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	
Depths: Test / Nom / Actual (mm)	225 / 250 / 250	225 / 250 / 250	
Standard or Modified	Standard	Standard	
Grid			
Easting (m)	722496.7	722523.2	
Northing (m)	7654022.3	7654033.1	
RL	7.0	7.1	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	
Sample Oversize (%)	0	0	
Compaction Sample Number	5676/S/25-6104	5676/S/25-6105	
Sample Description	Fill	Fill	
<i>Moisture Test Results:</i>			
Field Moisture Content (%)	18.4	16.3	
<b>Adjusted / Moist. Variation (%)</b>	2.0	1.5	
Optimum Moisture Content (%)	20.5	18.0	
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	
<b>Moisture Ratio (%)</b>	90.0	91.0	
<i>Density Test Results:</i>			
Field Wet Density (t/m <sup>3</sup> )	2.06	2.05	
Field Dry Density (t/m <sup>3</sup> )	1.74	1.76	
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.10	2.07	
Density Ratio Required (%)	-	-	
<b>Hilf Density Ratio (%)</b>	98.0	99.0	

(Moisture Ratio = (100 x Field Moisture Content) / Optimum Moisture Content. Moisture Ratio calculation not covered by NATA endorsement)

Remarks
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<p style="text-align: center;">Accredited for compliance with ISO/IEC 17025 – Testing</p>  <p>Accreditation Number: 1986 Corporate Site Number: 5676</p>	 <p>Approved Signatory: Craig Goss Form ID: W5ASMRRepSum Rev 4</p>
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## LOT REPORT - WET DENSITY RATIO

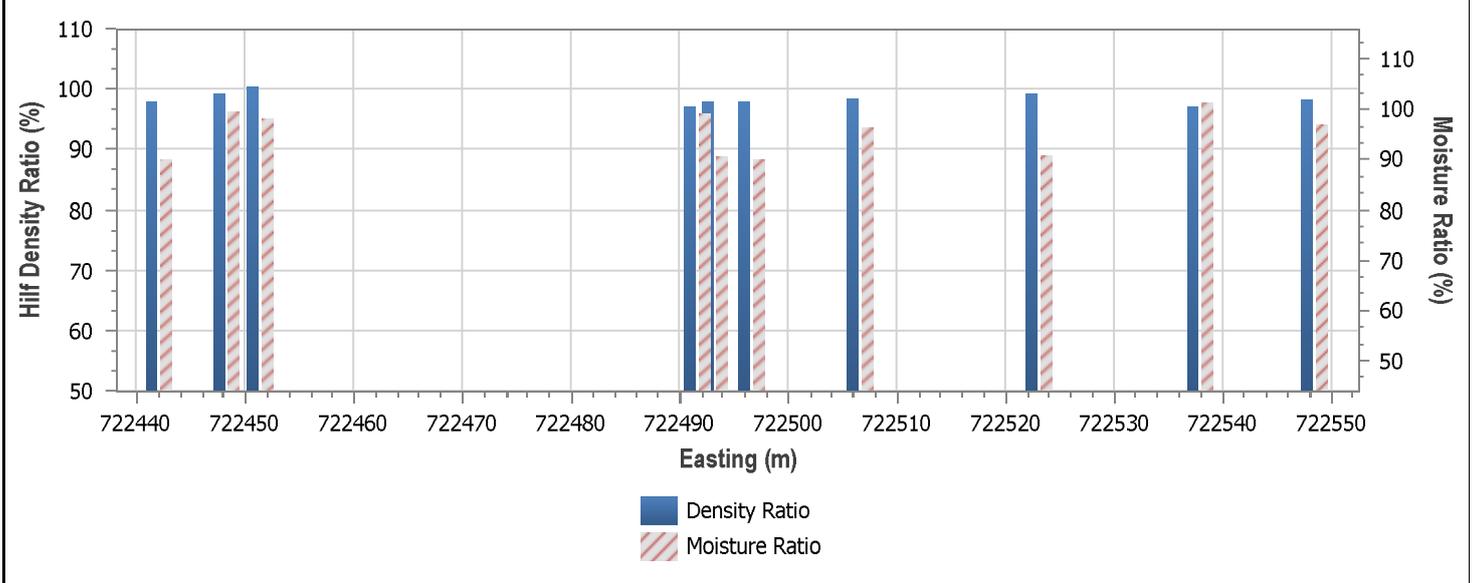
Client: Vassallo Constructions Pty Ltd Client Address: PO BOX 8158, MT PLEASANT Project: 0328- The Waters Ooralea Stage 7 Location: Mackay Supplied To: n/a Area Description:	Report Number: 5676/R/25-2257-1 Project Number: 5676/P/25-1 Lot Number: Internal Test Request: 5676/T/25-1411 Client Reference/s: Report Date / Page: 10/06/2025 <span style="float: right;">Page 4 of 4</span>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
Statistical Analysis Test Method:	Lot Average (Lot average calculations are not covered by endorsement)

### Nuclear Gauge Calibration Details

Calibration Number	-	Material Source	-
Calibration Last Updated	-	Material Type	-
Nominated Calibration Layer Depth (mm)	-		

### LOT TEST RESULT SUMMARY



Tests in Lot = 10	Lot Minimum	Lot Maximum	Lot Mean	Standard Deviation
Moisture Ratio (%)	90.0	101.2	95.2	4.429
Bulk Density Ratio (%)	97.0	100.3	98.3	1.003

Lot Number:	-
Mean Moisture Ratio (%):	95.2
Mean Density Ratio (%):	98.3

Remarks

	Accredited for compliance with ISO/IEC 17025 – Testing	
Accreditation Number: 1986 Corporate Site Number: 5676		Approved Signatory: Craig Goss Form ID: W5ASMRRepSum Rev 4

## LOT REPORT - WET DENSITY RATIO

Client: Vassallo Constructions Pty Ltd Client Address: PO BOX 8158, MT PLEASANT Project: 0328- The Waters Ooralea Stage 7 Location: Mackay Supplied To: n/a Area Description:	Report Number: 5676/R/25-2413-1 Project Number: 5676/P/25-1 Lot Number: Internal Test Request: 5676/T/25-1415 Client Reference/s: TR: 8 (WR17176) 05/06/2025 Report Date / Page: 20/06/2025 <span style="float: right;">Page 1 of 4</span>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	5676/S/25-6153	5676/S/25-6154	5676/S/25-6155	5676/S/25-6156
ID / Client ID	-	-	-	-
Lot Number	-	-	-	-
Date / Time Tested	5/06/2025 10:30	5/06/2025 10:35	5/06/2025 10:40	5/06/2025 10:45
Material Source	Onsite	Onsite	Onsite	Onsite
Material Type	General Fill	General Fill	General Fill	General Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	225 / 250 / 250	225 / 250 / 250	225 / 250 / 250	225 / 250 / 250
Standard or Modified	Standard	Standard	Standard	Standard
Grid				
Easting (m)	722572.4	722577.1	722472.7	722439.0
Northing (m)	7653966.3	7653960.2	7653957.4	7653988.3
RL	7.5	7.4	7.4	7.3
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	5676/S/25-6153	5676/S/25-6154	5676/S/25-6155	5676/S/25-6156
Sample Description	FILL	Fill	Fill	Fill
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	21.4	23.8	22.5	23.6
<b>Adjusted / Moist. Variation (%)</b>	1.5	1.5	2.0	2.0
Optimum Moisture Content (%)	23.0	25.5	25.0	26.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
<b>Moisture Ratio (%)</b>	92.0	92.5	90.0	91.5
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.07	2.08	2.07	2.05
Field Dry Density (t/m <sup>3</sup> )	1.70	1.68	1.69	1.66
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.09	2.09	2.15	2.14
Density Ratio Required (%)	-	-	-	-
<b>Hilf Density Ratio (%)</b>	99.0	99.5	96.0	95.5

(Moisture Ratio = (100 x Field Moisture Content) / Optimum Moisture Content. Moisture Ratio calculation not covered by NATA endorsement)

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
	Approved Signatory: Craig Goss Form ID: W5ASMRRepSum Rev 4
Accreditation Number: 1986 Corporate Site Number: 5676	

## LOT REPORT - WET DENSITY RATIO

<p>Client: Vassallo Constructions Pty Ltd</p> <p>Client Address: PO BOX 8158, MT PLEASANT</p> <p>Project: 0328- The Waters Ooralea Stage 7</p> <p>Location: Mackay</p> <p>Supplied To: n/a</p> <p>Area Description:</p>	<p>Report Number: 5676/R/25-2413-1</p> <p>Project Number: 5676/P/25-1</p> <p>Lot Number:</p> <p>Internal Test Request: 5676/T/25-1415</p> <p>Client Reference/s: TR: 8 (WR17176) 05/06/2025</p> <p>Report Date / Page: 20/06/2025 <span style="float: right;">Page 2 of 4</span></p>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	5676/S/25-6157	5676/S/25-6158	5676/S/25-6159	5676/S/25-6160
ID / Client ID	-	-	-	-
Lot Number	-	-	-	-
Date / Time Tested	5/06/2025 10:50	5/06/2025 10:55	5/06/2025 11:00	5/06/2025 11:05
Material Source	Onsite	Onsite	Onsite	Onsite
Material Type	General Fill	General Fill	General Fill	General Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	225 / 250 / 250	225 / 250 / 250	225 / 250 / 250	225 / 250 / 250
Standard or Modified	Standard	Standard	Standard	Standard
Grid				
Easting (m)	722480.7	722531.1	722510.6	722448.3
Northing (m)	7653998.3	7654015.4	7654022.2	7654028.9
RL	7.4	7.3	7.5	7.3
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	5676/S/25-6157	5676/S/25-6158	5676/S/25-6159	5676/S/25-6160
Sample Description	Fill	Fill	Fill	Fill
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	20.8	22.9	21.8	19.6
<b>Adjusted / Moist. Variation (%)</b>	2.0	2.0	2.0	2.0
Optimum Moisture Content (%)	23.0	25.0	24.0	22.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
<b>Moisture Ratio (%)</b>	90.0	91.0	91.0	90.0
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.11	2.09	2.07	2.11
Field Dry Density (t/m <sup>3</sup> )	1.75	1.70	1.70	1.77
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.14	2.18	2.17	2.19
Density Ratio Required (%)	-	-	-	-
<b>Hilf Density Ratio (%)</b>	98.5	96.0	95.5	96.5

(Moisture Ratio = (100 x Field Moisture Content) / Optimum Moisture Content. Moisture Ratio calculation not covered by NATA endorsement)

Remarks

<p>Accredited for compliance with ISO/IEC 17025 – Testing</p>	
 <p>Accreditation Number: 1986 Corporate Site Number: 5676</p>	<p>Approved Signatory: Craig Goss Form ID: W5ASMRRepSum Rev 4</p>

## LOT REPORT - WET DENSITY RATIO

<p>Client: Vassallo Constructions Pty Ltd</p> <p>Client Address: PO BOX 8158, MT PLEASANT</p> <p>Project: 0328- The Waters Ooralea Stage 7</p> <p>Location: Mackay</p> <p>Supplied To: n/a</p> <p>Area Description:</p>	<p>Report Number: 5676/R/25-2413-1</p> <p>Project Number: 5676/P/25-1</p> <p>Lot Number:</p> <p>Internal Test Request: 5676/T/25-1415</p> <p>Client Reference/s: TR: 8 (WR17176) 05/06/2025</p> <p>Report Date / Page: 20/06/2025 <span style="float: right;">Page 3 of 4</span></p>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	5676/S/25-6161	5676/S/25-6162	
ID / Client ID	-	-	
Lot Number	-	-	
Date / Time Tested	5/06/2025 11:10	5/06/2025 11:15	
Material Source	Onsite	Onsite	
Material Type	General Fill	General Fill	
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	
Depths: Test / Nom / Actual (mm)	225 / 250 / 250	225 / 250 / 250	
Standard or Modified	Standard	Standard	
Grid			
Easting (m)	722485.7	722526.0	
Northing (m)	7654037.6	7654040.9	
RL	7.4	7.3	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	
Sample Oversize (%)	0	0	
Compaction Sample Number	5676/S/25-6161	5676/S/25-6162	
Sample Description	Fill	Fill	
<i>Moisture Test Results:</i>			
Field Moisture Content (%)	21.7	21.9	
<b>Adjusted / Moist. Variation (%)</b>	2.0	2.0	
Optimum Moisture Content (%)	24.0	24.5	
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	
<b>Moisture Ratio (%)</b>	90.5	90.0	
<i>Density Test Results:</i>			
Field Wet Density (t/m <sup>3</sup> )	2.09	2.08	
Field Dry Density (t/m <sup>3</sup> )	1.72	1.71	
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.14	2.10	
Density Ratio Required (%)	-	-	
<b>Hilf Density Ratio (%)</b>	98.0	99.5	

(Moisture Ratio = (100 x Field Moisture Content) / Optimum Moisture Content. Moisture Ratio calculation not covered by NATA endorsement)

Remarks

	<p>Accredited for compliance with ISO/IEC 17025 – Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 5676</p>	 <p>Approved Signatory: Craig Goss Form ID: W5ASMRRepSum Rev 4</p>
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## LOT REPORT - WET DENSITY RATIO

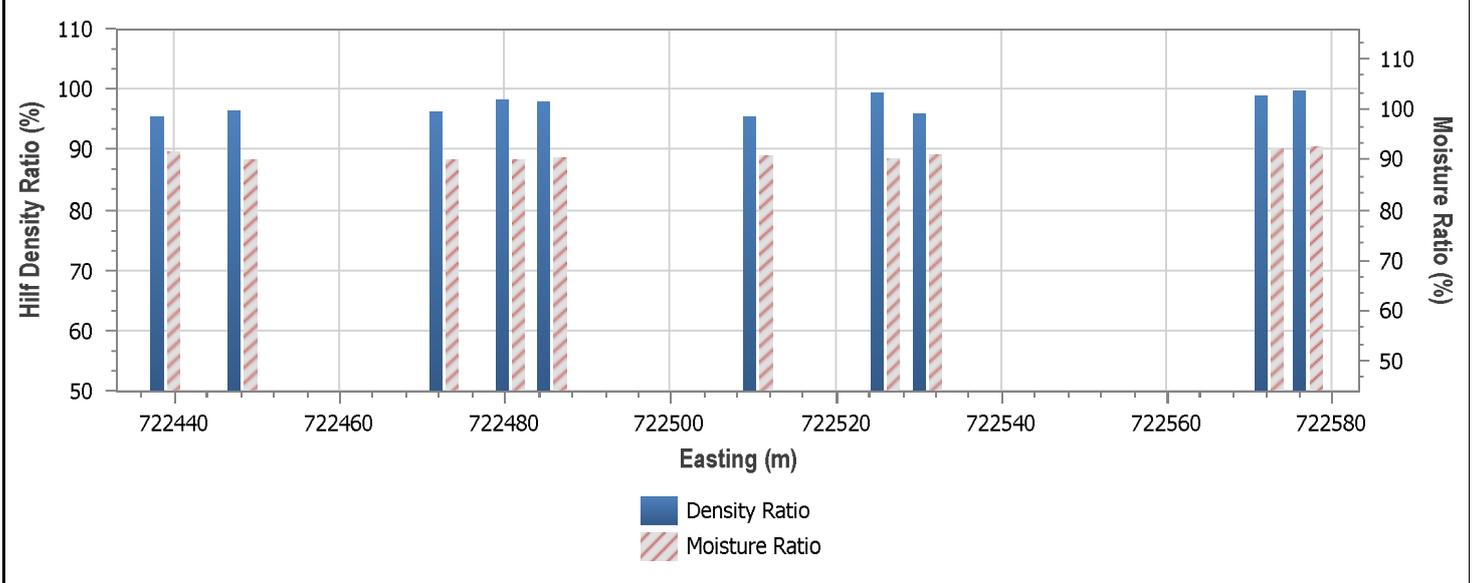
Client: Vassallo Constructions Pty Ltd Client Address: PO BOX 8158, MT PLEASANT Project: 0328- The Waters Ooralea Stage 7 Location: Mackay Supplied To: n/a Area Description:	Report Number: 5676/R/25-2413-1 Project Number: 5676/P/25-1 Lot Number: Internal Test Request: 5676/T/25-1415 Client Reference/s: TR: 8 (WR17176) 05/06/2025 Report Date / Page: 20/06/2025 <span style="float: right;">Page 4 of 4</span>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
Statistical Analysis Test Method:	Lot Average (Lot average calculations are not covered by endorsement)

### Nuclear Gauge Calibration Details

Calibration Number	-	Material Source	-
Calibration Last Updated	-	Material Type	-
Nominated Calibration Layer Depth (mm)	-		

### LOT TEST RESULT SUMMARY



Tests in Lot = 10	Lot Minimum	Lot Maximum	Lot Mean	Standard Deviation
Moisture Ratio (%)	90.0	92.6	90.9	0.957
Half Density Ratio (%)	95.5	99.7	97.4	1.677

Lot Number:	-
Mean Moisture Ratio (%):	90.8
Mean Density Ratio (%):	97.4

Remarks

	Accredited for compliance with ISO/IEC 17025 – Testing	
Accreditation Number: 1986 Corporate Site Number: 5676		Approved Signatory: Craig Goss Form ID: W5ASMRRepSum Rev 4

## LOT REPORT - WET DENSITY RATIO

<p>Client: Vassallo Constructions Pty Ltd</p> <p>Client Address: PO BOX 8158, MT PLEASANT</p> <p>Project: 0328- The Waters Ooralea Stage 7</p> <p>Location: Mackay</p> <p>Supplied To: n/a</p> <p>Area Description:</p>	<p>Report Number: 5676/R/25-2415-1</p> <p>Project Number: 5676/P/25-1</p> <p>Lot Number:</p> <p>Internal Test Request: 5676/T/25-1435</p> <p>Client Reference/s: TR: 9 (WR17177) 06/06/2025</p> <p>Report Date / Page: 20/06/2025 <span style="float: right;">Page 1 of 3</span></p>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	5676/S/25-6244	5676/S/25-6245	5676/S/25-6246	5676/S/25-6247
ID / Client ID	-	-	-	-
Lot Number	-	-	-	-
Date / Time Tested	6/06/2025 13:30	6/06/2025 13:35	6/06/2025 13:40	6/06/2025 13:45
Material Source	Onsite	Onsite	Onsite	Onsite
Material Type	General Fill	General Fill	General Fill	General Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	225 / 250 / 250	225 / 250 / 250	225 / 250 / 250	225 / 250 / 250
Standard or Modified	Standard	Standard	Standard	Standard
Grid				
Easting (m)	722538.1	722541.1	722451.5	722425.5
Northing (m)	7654004.6	7654034.4	7653989.1	7654006.1
RL	8.1	8.2	8.3	8.5
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	5676/S/25-6244	5676/S/25-6245	5676/S/25-6246	5676/S/25-6247
Sample Description	Fill	Fill	Fill	Fill
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	18.3	21.0	21.7	18.9
<b>Adjusted / Moist. Variation (%)</b>	1.5	1.5	1.5	1.5
Optimum Moisture Content (%)	20.0	23.0	23.5	20.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
<b>Moisture Ratio (%)</b>	91.5	92.0	92.5	91.5
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.03	2.07	2.05	2.03
Field Dry Density (t/m <sup>3</sup> )	1.72	1.71	1.68	1.71
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.03	2.10	2.10	2.09
Density Ratio Required (%)	-	-	-	-
<b>Hilf Density Ratio (%)</b>	100.0	98.5	97.5	97.0

(Moisture Ratio = (100 x Field Moisture Content) / Optimum Moisture Content. Moisture Ratio calculation not covered by NATA endorsement)

Remarks
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<p style="text-align: center;">Accredited for compliance with ISO/IEC 17025 – Testing</p>  <p>Accreditation Number: 1986 Corporate Site Number: 5676</p>	 <p>Approved Signatory: Craig Goss Form ID: W5ASMRRepSum Rev 4</p>
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## LOT REPORT - WET DENSITY RATIO

<p>Client: Vassallo Constructions Pty Ltd</p> <p>Client Address: PO BOX 8158, MT PLEASANT</p> <p>Project: 0328- The Waters Ooralea Stage 7</p> <p>Location: Mackay</p> <p>Supplied To: n/a</p> <p>Area Description:</p>	<p>Report Number: 5676/R/25-2415-1</p> <p>Project Number: 5676/P/25-1</p> <p>Lot Number:</p> <p>Internal Test Request: 5676/T/25-1435</p> <p>Client Reference/s: TR: 9 (WR17177) 06/06/2025</p> <p>Report Date / Page: 20/06/2025 <span style="float: right;">Page 2 of 3</span></p>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	5676/S/25-6248	5676/S/25-6249	
ID / Client ID	-	-	
Lot Number	-	-	
Date / Time Tested	6/06/2025 13:50	6/06/2025 13:55	
Material Source	Onsite	Onsite	
Material Type	General Fill	General Fill	
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	
Depths: Test / Nom / Actual (mm)	225 / 250 / 250	225 / 250 / 250	
Standard or Modified	Standard	Standard	
Grid			
Easting (m)	722437.4	722466.9	
Northing (m)	7654032.6	7654035.6	
RL	8.1	7.9	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	
Sample Oversize (%)	0	0	
Compaction Sample Number	5676/S/25-6248	5676/S/25-6249	
Sample Description	Fill	Fill	
<i>Moisture Test Results:</i>			
Field Moisture Content (%)	20.8	21.2	
<b>Adjusted / Moist. Variation (%)</b>	2.0	1.0	
Optimum Moisture Content (%)	22.5	22.0	
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	
<b>Moisture Ratio (%)</b>	91.5	95.5	
<i>Density Test Results:</i>			
Field Wet Density (t/m <sup>3</sup> )	2.06	2.01	
Field Dry Density (t/m <sup>3</sup> )	1.70	1.66	
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.08	2.07	
Density Ratio Required (%)	-	-	
<b>Hilf Density Ratio (%)</b>	99.0	97.0	

(Moisture Ratio = (100 x Field Moisture Content) / Optimum Moisture Content. Moisture Ratio calculation not covered by NATA endorsement)

Remarks

 <p style="text-align: center;">Accredited for compliance with ISO/IEC 17025 – Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 5676</p>	 <p>Approved Signatory: Craig Goss Form ID: W5ASMRRepSum Rev 4</p>
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## LOT REPORT - WET DENSITY RATIO

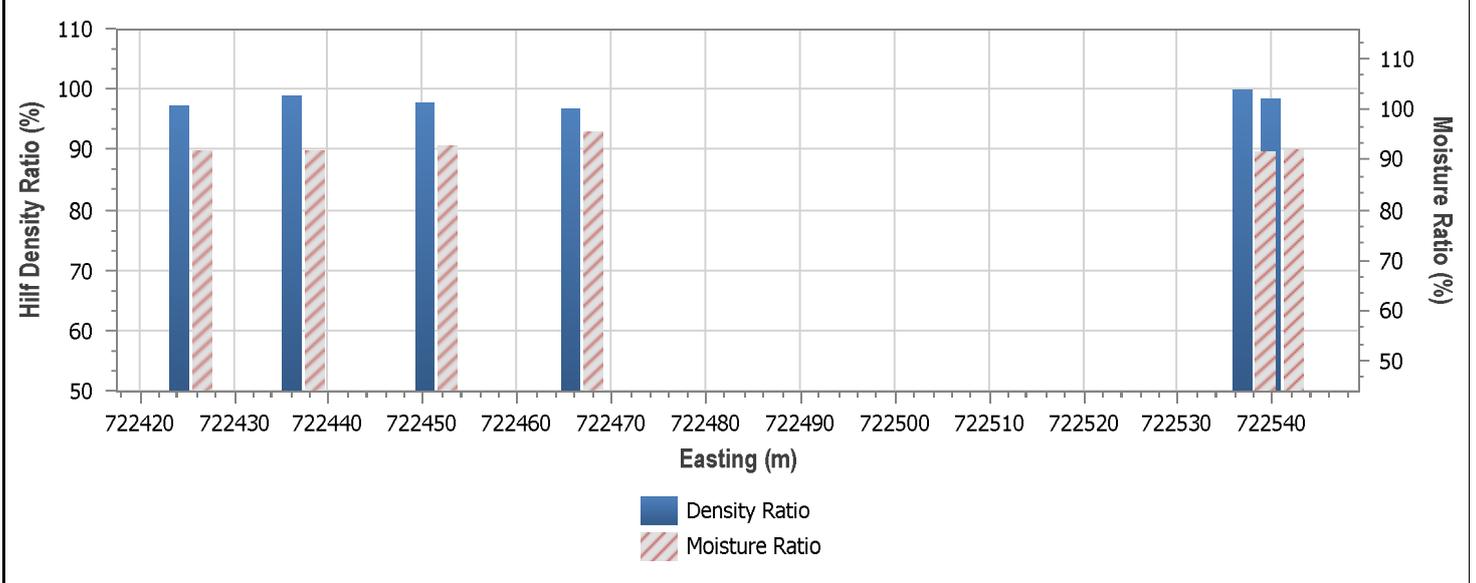
Client: Vassallo Constructions Pty Ltd Client Address: PO BOX 8158, MT PLEASANT Project: 0328- The Waters Ooralea Stage 7 Location: Mackay Supplied To: n/a Area Description:	Report Number: 5676/R/25-2415-1 Project Number: 5676/P/25-1 Lot Number: Internal Test Request: 5676/T/25-1435 Client Reference/s: TR: 9 (WR17177) 06/06/2025 Report Date / Page: 20/06/2025 <span style="float: right;">Page 3 of 3</span>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
Statistical Analysis Test Method:	Lot Average (Lot average calculations are not covered by endorsement)

### Nuclear Gauge Calibration Details

Calibration Number	-	Material Source	-
Calibration Last Updated	-	Material Type	-
Nominated Calibration Layer Depth (mm)	-		

### LOT TEST RESULT SUMMARY



Tests in Lot = 6	Lot Minimum	Lot Maximum	Lot Mean	Standard Deviation
Moisture Ratio (%)	91.5	95.5	92.5	1.526
Hiif Density Ratio (%)	96.8	99.9	98.1	1.151

Lot Number:	-
Mean Moisture Ratio (%):	92.5
Mean Density Ratio (%):	98.1

Remarks

	Accredited for compliance with ISO/IEC 17025 – Testing	
Accreditation Number: 1986 Corporate Site Number: 5676		Approved Signatory: Craig Goss Form ID: W5ASMRRepSum Rev 4

## LOT REPORT - WET DENSITY RATIO

<p>Client: Vassallo Constructions Pty Ltd</p> <p>Client Address: PO BOX 8158, MT PLEASANT</p> <p>Project: 0328- The Waters Ooralea Stage 7</p> <p>Location: Mackay</p> <p>Supplied To: n/a</p> <p>Area Description:</p>	<p>Report Number: 5676/R/25-2493-1</p> <p>Project Number: 5676/P/25-1</p> <p>Lot Number:</p> <p>Internal Test Request: 5676/T/25-1437</p> <p>Client Reference/s: TR: 10 (WR17178) 09/06/2025</p> <p>Report Date / Page: 23/06/2025 <span style="float: right;">Page 1 of 3</span></p>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	5676/S/25-6252	5676/S/25-6253	5676/S/25-6254	5676/S/25-6255
ID / Client ID	GST	GST	GST	GST
Lot Number	-	-	-	-
Date / Time Tested	9/06/2025 11:00	9/06/2025 11:05	9/06/2025 11:10	9/06/2025 11:15
Material Source	Insitu Material	Insitu Material	Insitu Material	Insitu Material
Material Type	Existing	Existing	Existing	Existing
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	150 / 175 / 175	150 / 175 / 175	150 / 175 / 175	150 / 175 / 175
Standard or Modified	Standard	Standard	Standard	Standard
Grid				
Easting (m)	722479.1	722481.7	722500.2	722508.4
Northing (m)	7654136.9	7654157.0	7654155.4	7654137.7
RL	7.1	7.1	7.1	7.2
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	5676/S/25-6252	5676/S/25-6253	5676/S/25-6254	5676/S/25-6255
Sample Description	Fill	Fill	Fill	Fill
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	12.7	13.2	14.8	12.1
<b>Adjusted / Moist. Variation (%)</b>	5.0	5.0	4.5	4.5
Optimum Moisture Content (%)	17.5	18.5	19.5	17.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
<b>Moisture Ratio (%)</b>	73.0	72.5	76.5	72.0
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	1.92	2.06	1.99	2.04
Field Dry Density (t/m <sup>3</sup> )	1.70	1.82	1.73	1.82
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	1.87	1.91	1.94	2.04
Density Ratio Required (%)	-	-	-	-
<b>Hilf Density Ratio (%)</b>	102.5	107.5	103.0	100.0

(Moisture Ratio = (100 x Field Moisture Content) / Optimum Moisture Content. Moisture Ratio calculation not covered by NATA endorsement)

Remarks
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<p style="text-align: center;">Accredited for compliance with ISO/IEC 17025 – Testing</p>  <p>Accreditation Number: 1986 Corporate Site Number: 5676</p>	 <p>Approved Signatory: Craig Goss Form ID: W5ASMRRepSum Rev 4</p>
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## LOT REPORT - WET DENSITY RATIO

<p>Client: Vassallo Constructions Pty Ltd</p> <p>Client Address: PO BOX 8158, MT PLEASANT</p> <p>Project: 0328- The Waters Ooralea Stage 7</p> <p>Location: Mackay</p> <p>Supplied To: n/a</p> <p>Area Description:</p>	<p>Report Number: 5676/R/25-2493-1</p> <p>Project Number: 5676/P/25-1</p> <p>Lot Number:</p> <p>Internal Test Request: 5676/T/25-1437</p> <p>Client Reference/s: TR: 10 (WR17178) 09/06/2025</p> <p>Report Date / Page: 23/06/2025 <span style="float: right;">Page 2 of 3</span></p>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	5676/S/25-6256	5676/S/25-6257	
ID / Client ID	GST	GST	
Lot Number	-	-	
Date / Time Tested	9/06/2025 11:20	9/06/2025 11:25	
Material Source	In situ Material	In situ Material	
Material Type	Existing	Existing	
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	
Depths: Test / Nom / Actual (mm)	150 / 175 / 175	150 / 175 / 175	
Standard or Modified	Standard	Standard	
Grid			
Easting (m)	722497.14	722500.2	
Northing (m)	7654119.5	7654106.5	
RL	7.3	7.3	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	
Sample Oversize (%)	0	0	
Compaction Sample Number	5676/S/25-6256	5676/S/25-6257	
Sample Description	Fill	Fill	
<b>Moisture Test Results:</b>			
Field Moisture Content (%)	13.8	10.2	
<b>Adjusted / Moist. Variation (%)</b>	3.0	4.5	
Optimum Moisture Content (%)	16.5	14.5	
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	
<b>Moisture Ratio (%)</b>	84.0	70.0	
<b>Density Test Results:</b>			
Field Wet Density (t/m <sup>3</sup> )	1.97	1.91	
Field Dry Density (t/m <sup>3</sup> )	1.73	1.73	
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	1.94	1.94	
Density Ratio Required (%)	-	-	
<b>Hilf Density Ratio (%)</b>	101.5	98.5	

(Moisture Ratio = (100 x Field Moisture Content) / Optimum Moisture Content. Moisture Ratio calculation not covered by NATA endorsement)

Remarks
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<p style="text-align: center;">Accredited for compliance with ISO/IEC 17025 – Testing</p>  <p>Accreditation Number: 1986 Corporate Site Number: 5676</p>	 <p>Approved Signatory: Craig Goss Form ID: W5ASMRRepSum Rev 4</p>
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## LOT REPORT - WET DENSITY RATIO

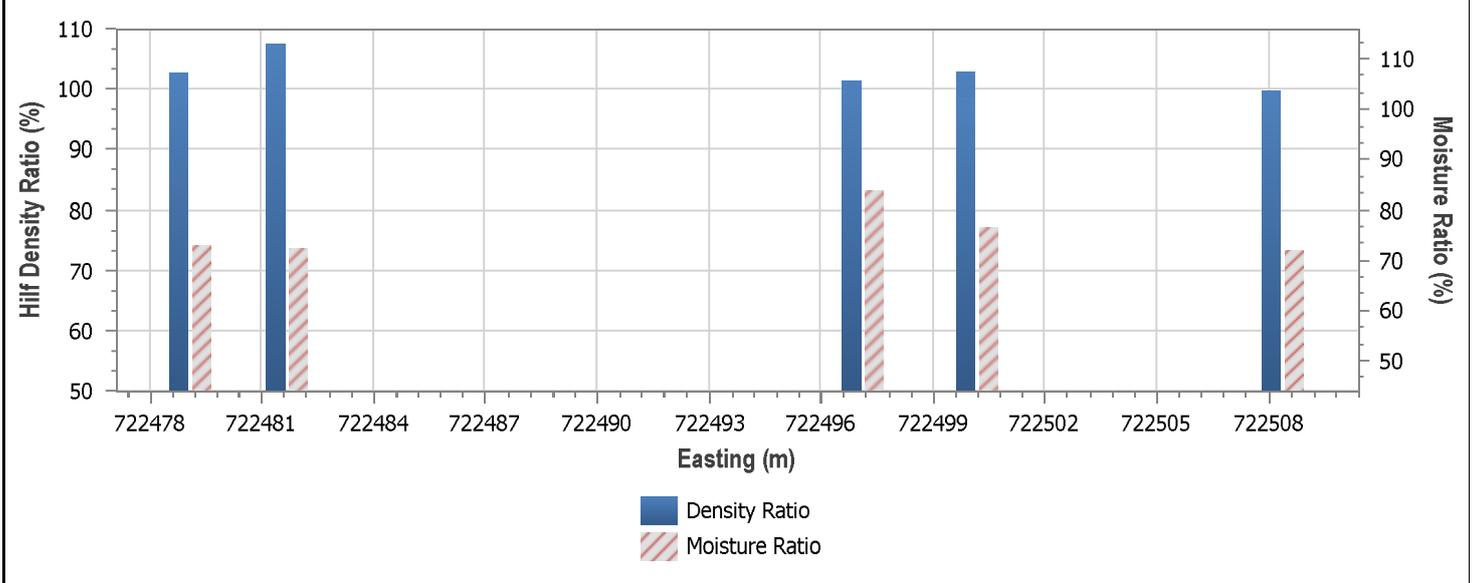
Client: Vassallo Constructions Pty Ltd Client Address: PO BOX 8158, MT PLEASANT Project: 0328- The Waters Ooralea Stage 7 Location: Mackay Supplied To: n/a Area Description:	Report Number: 5676/R/25-2493-1 Project Number: 5676/P/25-1 Lot Number: Internal Test Request: 5676/T/25-1437 Client Reference/s: TR: 10 (WR17178) 09/06/2025 Report Date / Page: 23/06/2025 <span style="float: right;">Page 3 of 3</span>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
Statistical Analysis Test Method:	Lot Average (Lot average calculations are not covered by endorsement)

### Nuclear Gauge Calibration Details

Calibration Number	-	Material Source	-
Calibration Last Updated	-	Material Type	-
Nominated Calibration Layer Depth (mm)	-		

### LOT TEST RESULT SUMMARY



Tests in Lot = 6	Lot Minimum	Lot Maximum	Lot Mean	Standard Deviation
Moisture Ratio (%)	70.0	83.8	74.6	4.989
Half Density Ratio (%)	98.6	107.5	102.1	3.098

Lot Number:	-
Mean Moisture Ratio (%):	74.6
Mean Density Ratio (%):	102.1

Remarks

	Accredited for compliance with ISO/IEC 17025 – Testing	
Accreditation Number: 1986 Corporate Site Number: 5676		Approved Signatory: Craig Goss Form ID: W5ASMRRepSum Rev 4

## LOT REPORT - WET DENSITY RATIO

<p>Client: Vassallo Constructions Pty Ltd</p> <p>Client Address: PO BOX 8158, MT PLEASANT</p> <p>Project: 0328- The Waters Ooralea Stage 7</p> <p>Location: Mackay</p> <p>Supplied To: n/a</p> <p>Area Description:</p>	<p>Report Number: 5676/R/25-2573-1</p> <p>Project Number: 5676/P/25-1</p> <p>Lot Number: TSSITE002</p> <p>Internal Test Request: 5676/T/25-1488</p> <p>Client Reference/s: TR: 11 Section 4 GST(WR17184) 10/</p> <p>Report Date / Page: 25/06/2025 <span style="float: right;">Page 1 of 2</span></p>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	5676/S/25-6465	5676/S/25-6466	5676/S/25-6467	5676/S/25-6468
ID / Client ID	Section 4 GST	Section 4 GST	Section 4 GST	Section 4 GST
Lot Number	TSSITE002	TSSITE002	TSSITE002	TSSITE002
Date / Time Tested	10/06/2025 12:00	10/06/2025 12:00	10/06/2025 12:00	10/06/2025 12:00
Material Source	Insitu Material	Insitu Material	Insitu Material	Insitu Material
Material Type	Existing	Existing	Existing	Existing
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	225 / 175 / 250	225 / 175 / 250	225 / 175 / 250	225 / 175 / 250
Standard or Modified	Standard	Standard	Standard	Standard
Grid	Section 4	Section 4	Section 4	Section 4
Easting (m)	722571.6	722578.2	722568.6	722573.3
Northing (m)	7654101.2	7654082.2	7654060.7	7654049.2
RL	6.9	6.9	7.0	6.9
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	5676/S/25-6465	5676/S/25-6466	5676/S/25-6467	5676/S/25-6468
Sample Description	Fill	Fill	Fill	Fill
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	13.1	13.9	13.5	14.2
<b>Adjusted / Moist. Variation (%)</b>	1.5	1.5	1.5	1.0
Optimum Moisture Content (%)	14.5	15.5	15.0	15.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
<b>Moisture Ratio (%)</b>	89.0	89.5	89.5	91.5
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.07	2.04	2.05	2.04
Field Dry Density (t/m <sup>3</sup> )	1.83	1.79	1.81	1.78
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.08	2.09	2.08	2.06
Density Ratio Required (%)	-	-	-	-
<b>Hilf Density Ratio (%)</b>	99.5	97.5	98.5	99.0

(Moisture Ratio = (100 x Field Moisture Content) / Optimum Moisture Content. Moisture Ratio calculation not covered by NATA endorsement)

Remarks

<p>Accredited for compliance with ISO/IEC 17025 – Testing</p>	
 <p>Accreditation Number: 1986 Corporate Site Number: 5676</p>	<p>Approved Signatory: Craig Goss Form ID: W5ASMRRepSum Rev 4</p>

## LOT REPORT - WET DENSITY RATIO

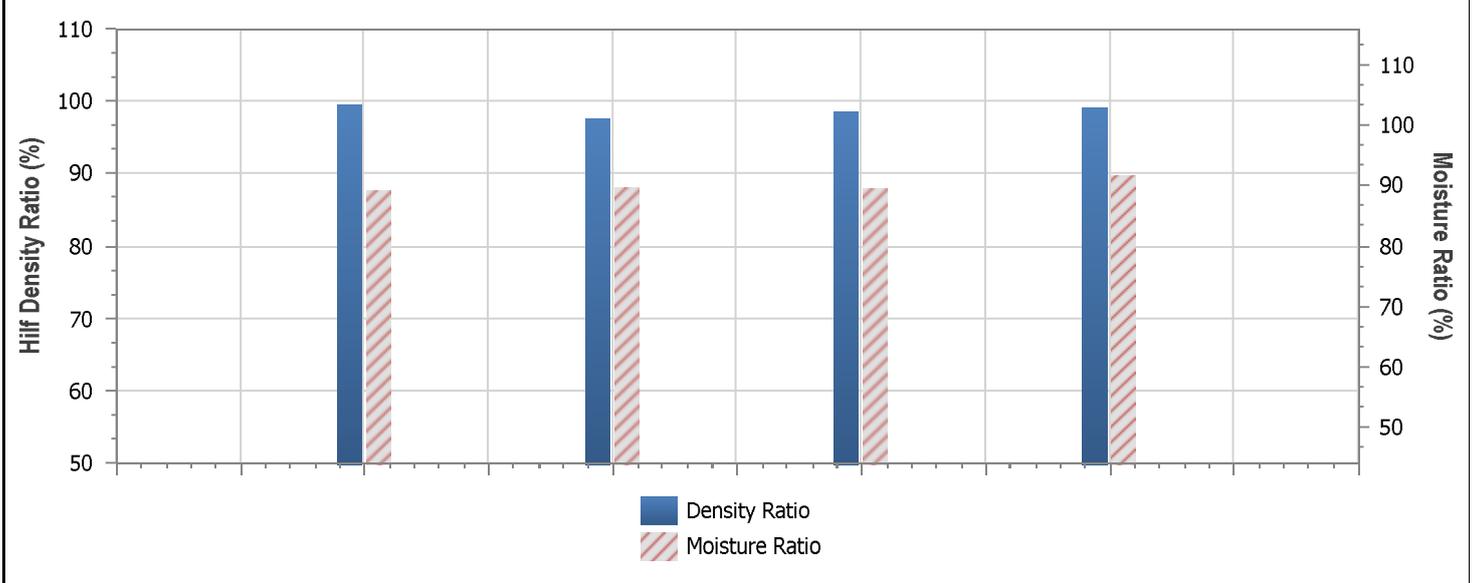
Client: Vassallo Constructions Pty Ltd Client Address: PO BOX 8158, MT PLEASANT Project: 0328- The Waters Ooralea Stage 7 Location: Mackay Supplied To: n/a Area Description:	Report Number: 5676/R/25-2573-1 Project Number: 5676/P/25-1 Lot Number: TSSITE002 Internal Test Request: 5676/T/25-1488 Client Reference/s: TR: 11 Section 4 GST(WR17184) 10/ Report Date / Page: 25/06/2025 <span style="float: right;">Page 2 of 2</span>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
Statistical Analysis Test Method:	Lot Average (Lot average calculations are not covered by endorsement)

### Nuclear Gauge Calibration Details

Calibration Number	-	Material Source	-
Calibration Last Updated	-	Material Type	-
Nominated Calibration Layer Depth (mm)	-		

### LOT TEST RESULT SUMMARY



Tests in Lot = 4	Lot Minimum	Lot Maximum	Lot Mean	Standard Deviation
Moisture Ratio (%)	89.1	91.6	90.0	1.127
Half Density Ratio (%)	97.5	99.5	98.7	0.887

Lot Number:	TSSITE002
Mean Moisture Ratio (%):	90.0
Mean Density Ratio (%):	98.7

Remarks

	Accredited for compliance with ISO/IEC 17025 – Testing	
	Accreditation Number: 1986 Corporate Site Number: 5676	Approved Signatory: Craig Goss Form ID: W5ASMRRepSum Rev 4

## LOT REPORT - WET DENSITY RATIO

<p>Client: Vassallo Constructions Pty Ltd</p> <p>Client Address: PO BOX 8158, MT PLEASANT</p> <p>Project: 0328- The Waters Ooralea Stage 7</p> <p>Location: Mackay</p> <p>Supplied To: n/a</p> <p>Area Description:</p>	<p>Report Number: 5676/R/25-2572-1</p> <p>Project Number: 5676/P/25-1</p> <p>Lot Number:</p> <p>Internal Test Request: 5676/T/25-1494</p> <p>Client Reference/s: TR: 12 Section 4 Layer 1 (WR17185)</p> <p>Report Date / Page: 25/06/2025 <span style="float: right;">Page 1 of 3</span></p>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	5676/S/25-6584	5676/S/25-6585	5676/S/25-6586	5676/S/25-6587
ID / Client ID	Section 4 Layer 1			
Lot Number	-	-	-	-
Date / Time Tested	11/06/2025 12:00	11/06/2025 12:05	11/06/2025 12:10	11/06/2025 12:15
Material Source	Onsite	Onsite	Onsite	Onsite
Material Type	General Fill	General Fill	General Fill	General Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	225 / 250 / 250	225 / 250 / 250	225 / 250 / 250	225 / 250 / 250
Standard or Modified	Standard	Standard	Standard	Standard
Grid	Section 4	Section 4	Section 4	Section 4
Easting (m)	722563.4	722571.3	722562.6	722572.2
Northing (m)	7654107.7	7654092.5	7654082.1	7654075.9
RL	7.1	7.2	7.15	7.1
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	5676/S/25-6584	5676/S/25-6585	5676/S/25-6586	5676/S/25-6587
Sample Description	Fill	Fill	Fill	Fill
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	12.3	14.5	15.2	15.7
<b>Adjusted / Moist. Variation (%)</b>	1.5	1.5	1.5	1.5
Optimum Moisture Content (%)	14.0	16.0	17.0	17.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
<b>Moisture Ratio (%)</b>	88.5	90.5	90.5	90.5
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.07	2.04	2.01	1.99
Field Dry Density (t/m <sup>3</sup> )	1.84	1.78	1.74	1.72
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.07	2.06	2.05	2.02
Density Ratio Required (%)	-	-	-	-
<b>Hilf Density Ratio (%)</b>	100.0	98.5	98.0	98.5

(Moisture Ratio = (100 x Field Moisture Content) / Optimum Moisture Content. Moisture Ratio calculation not covered by NATA endorsement)

Remarks

<div style="text-align: center;">  <p>Accredited for compliance with ISO/IEC 17025 – Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 5676</p> </div>	 <p>Approved Signatory: Craig Goss Form ID: W5ASMRRepSum Rev 4</p>
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## LOT REPORT - WET DENSITY RATIO

<b>Client:</b> Vassallo Constructions Pty Ltd <b>Client Address:</b> PO BOX 8158, MT PLEASANT <b>Project:</b> 0328- The Waters Ooralea Stage 7 <b>Location:</b> Mackay <b>Supplied To:</b> n/a <b>Area Description:</b>	<b>Report Number:</b> 5676/R/25-2572-1 <b>Project Number:</b> 5676/P/25-1 <b>Lot Number:</b> <b>Internal Test Request:</b> 5676/T/25-1494 <b>Client Reference/s:</b> TR: 12 Section 4 Layer 1 (WR17185) <b>Report Date / Page:</b> 25/06/2025 <span style="float: right;">Page 2 of 3</span>
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<b>Test Procedures:</b>	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	5676/S/25-6588	5676/S/25-6589		
ID / Client ID	Section 4 Layer 1	Section 4 Layer 1		
Lot Number	-	-		
Date / Time Tested	11/06/2025 12:20	11/06/2025 12:25		
Material Source	Onsite	Onsite		
Material Type	General Fill	General Fill		
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b		
Depths: Test / Nom / Actual (mm)	225 / 250 / 250	225 / 250 / 250		
Standard or Modified	Standard	Standard		
Grid	Section 4	Section 4		
Easting (m)	722570.5	722575.9		
Northing (m)	7654056.2	7654045.6		
RL	7.1	7.15		
Test Fraction (mm)	< 19.0 mm	< 19.0 mm		
Sample Oversize (%)	0	0		
Compaction Sample Number	5676/S/25-6588	5676/S/25-6589		
Sample Description	Fill	Fill		
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	14.5	13.9		
<b>Adjusted / Moist. Variation (%)</b>	1.5	1.5		
Optimum Moisture Content (%)	16.0	15.5		
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)		
<b>Moisture Ratio (%)</b>	90.0	89.5		
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.05	2.04		
Field Dry Density (t/m <sup>3</sup> )	1.79	1.79		
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.05	2.07		
Density Ratio Required (%)	-	-		
<b>Hilf Density Ratio (%)</b>	100.0	98.5		

(Moisture Ratio = (100 x Field Moisture Content) / Optimum Moisture Content. Moisture Ratio calculation not covered by NATA endorsement)

Remarks

	Accredited for compliance with ISO/IEC 17025 – Testing	
<b>Accreditation Number:</b> 1986 <b>Corporate Site Number:</b> 5676		<b>Approved Signatory:</b> Craig Goss Form ID: W5ASMRRepSum Rev 4

## LOT REPORT - WET DENSITY RATIO

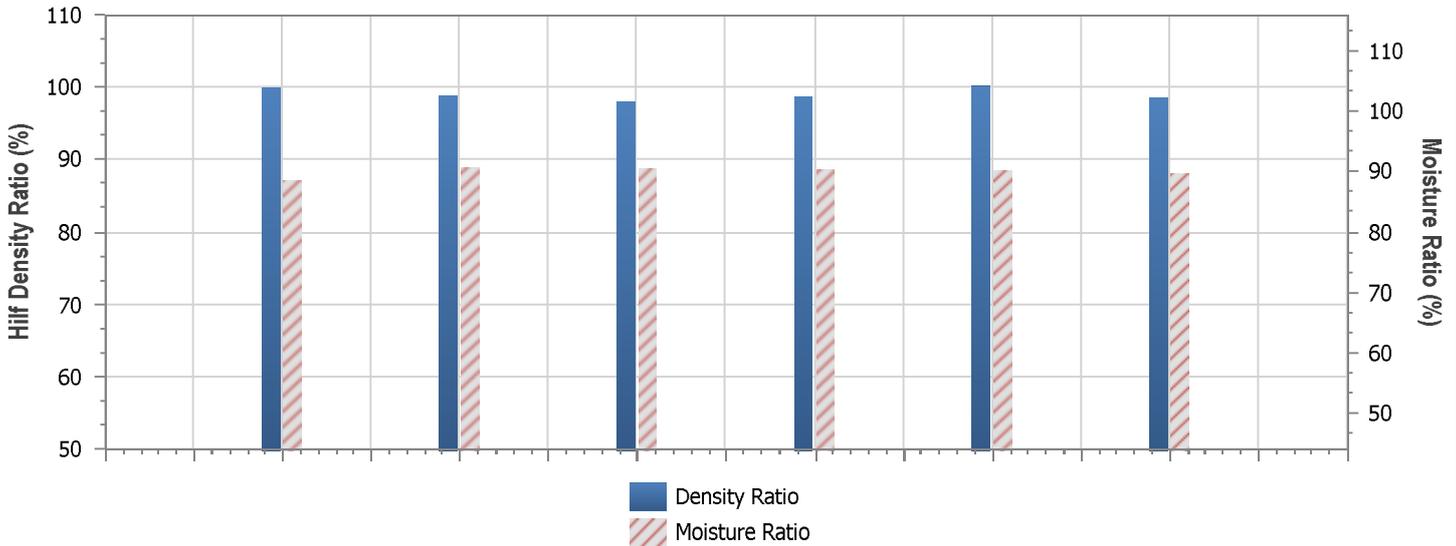
Client: Vassallo Constructions Pty Ltd Client Address: PO BOX 8158, MT PLEASANT Project: 0328- The Waters Ooralea Stage 7 Location: Mackay Supplied To: n/a Area Description:	Report Number: 5676/R/25-2572-1 Project Number: 5676/P/25-1 Lot Number: Internal Test Request: 5676/T/25-1494 Client Reference/s: TR: 12 Section 4 Layer 1 (WR17185) Report Date / Page: 25/06/2025 <span style="float: right;">Page 3 of 3</span>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
Statistical Analysis Test Method:	Lot Average (Lot average calculations are not covered by endorsement)

### Nuclear Gauge Calibration Details

Calibration Number	-	Material Source	-
Calibration Last Updated	-	Material Type	-
Nominated Calibration Layer Depth (mm)	-		

### LOT TEST RESULT SUMMARY



Tests in Lot = 6	Lot Minimum	Lot Maximum	Lot Mean	Standard Deviation
Moisture Ratio (%)	88.5	90.7	90.0	0.789
Half Density Ratio (%)	98.0	100.1	99.0	0.837

Lot Number:	-
Mean Moisture Ratio (%):	90.0
Mean Density Ratio (%):	99.0

Remarks

	Accredited for compliance with ISO/IEC 17025 – Testing	
Accreditation Number: 1986 Corporate Site Number: 5676		Approved Signatory: Craig Goss Form ID: W5ASMRRepSum Rev 4

## LOT REPORT - WET DENSITY RATIO

<p>Client: Vassallo Constructions Pty Ltd</p> <p>Client Address: PO BOX 8158, MT PLEASANT</p> <p>Project: 0328- The Waters Ooralea Stage 7</p> <p>Location: Mackay</p> <p>Supplied To: n/a</p> <p>Area Description:</p>	<p>Report Number: 5676/R/25-2555-1</p> <p>Project Number: 5676/P/25-1</p> <p>Lot Number:</p> <p>Internal Test Request: 5676/T/25-1495</p> <p>Client Reference/s: TR: 13 Section 3 Layer 1</p> <p>Report Date / Page: 25/06/2025 <span style="float: right;">Page 1 of 3</span></p>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	5676/S/25-6756	5676/S/25-6757	5676/S/25-6758	5676/S/25-6759
ID / Client ID	Section 3 Layer 1			
Lot Number	-	-	-	-
Date / Time Tested	12/06/2025 11:30	12/06/2025 11:30	12/06/2025 11:30	12/06/2025 11:30
Material Source	Onsite	Onsite	Onsite	Onsite
Material Type	General Fill	General Fill	General Fill	General Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	225 / 250 / 250	225 / 250 / 250	225 / 250 / 250	225 / 250 / 250
Standard or Modified	Standard	Standard	Standard	Standard
Grid	Section 3	Section 3	Section 3	Section 3
Easting (m)	722527.5	722509.9	722485.1	722462.5
Northing (m)	7654130.6	7654095.2	7654076.2	7654125.8
RL	7.2	7.3	7.22	7.2
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	5676/S/25-6756	5676/S/25-6757	5676/S/25-6758	5676/S/25-6759
Sample Description	Fill	Fill	Fill	Fill
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	12.3	15.5	15.3	14.7
<b>Adjusted / Moist. Variation (%)</b>	0.5	1.5	2.5	1.5
Optimum Moisture Content (%)	12.5	17.0	17.5	16.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
<b>Moisture Ratio (%)</b>	96.5	90.0	87.0	91.5
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.07	2.04	1.99	2.04
Field Dry Density (t/m <sup>3</sup> )	1.84	1.77	1.72	1.78
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	1.97	2.00	1.91	1.99
Density Ratio Required (%)	-	-	-	-
<b>Hilf Density Ratio (%)</b>	105.0	102.0	104.0	102.5

(Moisture Ratio = (100 x Field Moisture Content) / Optimum Moisture Content. Moisture Ratio calculation not covered by NATA endorsement)

Remarks

<p>Accredited for compliance with ISO/IEC 17025 – Testing</p>	
 <p>Accreditation Number: 1986 Corporate Site Number: 5676</p>	<p>Approved Signatory: Craig Goss Form ID: W5ASMRRepSum Rev 4</p>

## LOT REPORT - WET DENSITY RATIO

<p>Client: Vassallo Constructions Pty Ltd</p> <p>Client Address: PO BOX 8158, MT PLEASANT</p> <p>Project: 0328- The Waters Ooralea Stage 7</p> <p>Location: Mackay</p> <p>Supplied To: n/a</p> <p>Area Description:</p>	<p>Report Number: 5676/R/25-2555-1</p> <p>Project Number: 5676/P/25-1</p> <p>Lot Number:</p> <p>Internal Test Request: 5676/T/25-1495</p> <p>Client Reference/s: TR: 13 Section 3 Layer 1</p> <p>Report Date / Page: 25/06/2025 <span style="float: right;">Page 2 of 3</span></p>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	5676/S/25-6760	5676/S/25-6761		
ID / Client ID	Section 3 Layer 1	Section 3 Layer 1		
Lot Number	-	-		
Date / Time Tested	12/06/2025 11:30	12/06/2025 11:30		
Material Source	Onsite	Onsite		
Material Type	General Fill	General Fill		
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b		
Depths: Test / Nom / Actual (mm)	225 / 250 / 250	225 / 250 / 250		
Standard or Modified	Standard	Standard		
Grid	Section 3	Section 3		
Easting (m)	722457.6	722475.3		
Northing (m)	7654142.9	7654120.5		
RL	7.2	7.2		
Test Fraction (mm)	< 19.0 mm	< 19.0 mm		
Sample Oversize (%)	0	0		
Compaction Sample Number	5676/S/25-6760	5676/S/25-6761		
Sample Description	Fill	Fill		
<i>Moisture Test Results:</i>				
Field Moisture Content (%)	13.9	13.5		
<b>Adjusted / Moist. Variation (%)</b>	1.5	1.5		
Optimum Moisture Content (%)	15.5	15.0		
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)		
<b>Moisture Ratio (%)</b>	91.0	89.5		
<i>Density Test Results:</i>				
Field Wet Density (t/m <sup>3</sup> )	2.04	2.09		
Field Dry Density (t/m <sup>3</sup> )	1.79	1.84		
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.02	2.10		
Density Ratio Required (%)	-	-		
<b>Hilf Density Ratio (%)</b>	101.0	99.0		

(Moisture Ratio = (100 x Field Moisture Content) / Optimum Moisture Content. Moisture Ratio calculation not covered by NATA endorsement)

Remarks

 <p style="text-align: center;">Accredited for compliance with ISO/IEC 17025 – Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 5676</p>	 <p>Approved Signatory: Craig Goss Form ID: W5ASMRRepSum Rev 4</p>
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## LOT REPORT - WET DENSITY RATIO

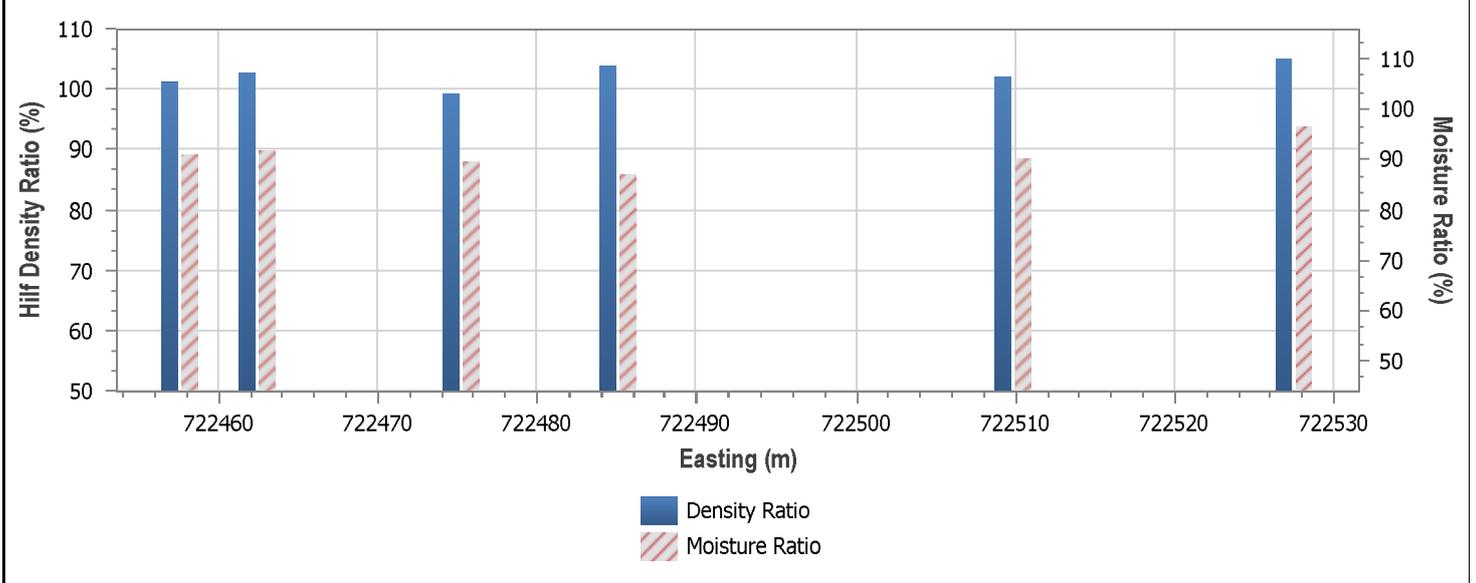
Client: Vassallo Constructions Pty Ltd Client Address: PO BOX 8158, MT PLEASANT Project: 0328- The Waters Ooralea Stage 7 Location: Mackay Supplied To: n/a Area Description:	Report Number: 5676/R/25-2555-1 Project Number: 5676/P/25-1 Lot Number: Internal Test Request: 5676/T/25-1495 Client Reference/s: TR: 13 Section 3 Layer 1 Report Date / Page: 25/06/2025 <span style="float: right;">Page 3 of 3</span>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
Statistical Analysis Test Method:	Lot Average (Lot average calculations are not covered by endorsement)

### Nuclear Gauge Calibration Details

Calibration Number	-	Material Source	-
Calibration Last Updated	-	Material Type	-
Nominated Calibration Layer Depth (mm)	-		

### LOT TEST RESULT SUMMARY



Tests in Lot = 6	Lot Minimum	Lot Maximum	Lot Mean	Standard Deviation
Moisture Ratio (%)	87.0	96.5	91.0	3.151
Half Density Ratio (%)	99.2	105.0	102.3	2.030

Lot Number:	-
Mean Moisture Ratio (%):	91.0
Mean Density Ratio (%):	102.3

Remarks

	Accredited for compliance with ISO/IEC 17025 – Testing	
Accreditation Number: 1986 Corporate Site Number: 5676		Approved Signatory: Craig Goss Form ID: W5ASMRRepSum Rev 4

## LOT REPORT - WET DENSITY RATIO

Client: Vassallo Constructions Pty Ltd Client Address: PO BOX 8158, MT PLEASANT Project: 0328- The Waters Ooralea Stage 7 Location: Mackay Supplied To: n/a Area Description:	Report Number: 5676/R/25-2547-1 Project Number: 5676/P/25-1 Lot Number: Internal Test Request: 5676/T/25-1496 Client Reference/s: TR: 14 Section 3 Layer 2 Report Date / Page: 24/06/2025 <span style="float: right;">Page 1 of 3</span>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	5676/S/25-6536	5676/S/25-6537	5676/S/25-6538	5676/S/25-6539
ID / Client ID	Section 3 Layer 2			
Lot Number	-	-	-	-
Date / Time Tested	16/06/2025 13:30	16/06/2025 13:30	16/06/2025 13:30	16/06/2025 13:30
Material Source	Onsite	Onsite	Onsite	Onsite
Material Type	General Fill	General Fill	General Fill	General Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	225 / 250 / 250	225 / 250 / 250	225 / 250 / 250	225 / 250 / 250
Standard or Modified	Standard	Standard	Standard	Standard
Grid	Section 3	Section 3	Section 3	Section 3
Easting (m)	722528.1	722521.1	722483.7	722486.9
Northing (m)	7654109.6	7654127.3	7654101.5	7654112.6
RL	7.4	7.49	7.41	7.4
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	5676/S/25-6536	5676/S/25-6537	5676/S/25-6538	5676/S/25-6539
Sample Description	Fill	Fill	Fill	Fill
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	12.2	16.8	13.9	16.1
<b>Adjusted / Moist. Variation (%)</b>	4.0	4.0	4.5	5.0
Optimum Moisture Content (%)	16.0	21.0	18.5	21.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
<b>Moisture Ratio (%)</b>	75.5	79.5	75.5	77.0
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.04	2.05	2.03	2.01
Field Dry Density (t/m <sup>3</sup> )	1.82	1.76	1.78	1.73
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.09	2.15	1.96	1.90
Density Ratio Required (%)	-	-	-	-
<b>Hilf Density Ratio (%)</b>	97.5	95.5	103.5	105.5

(Moisture Ratio = (100 x Field Moisture Content) / Optimum Moisture Content. Moisture Ratio calculation not covered by NATA endorsement)

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
 Accreditation Number: 1986 Corporate Site Number: 5676	Approved Signatory: Craig Goss Form ID: W5ASMRRepSum Rev 4

## LOT REPORT - WET DENSITY RATIO

Client: Vassallo Constructions Pty Ltd Client Address: PO BOX 8158, MT PLEASANT Project: 0328- The Waters Ooralea Stage 7 Location: Mackay Supplied To: n/a Area Description:	Report Number: 5676/R/25-2547-1 Project Number: 5676/P/25-1 Lot Number: Internal Test Request: 5676/T/25-1496 Client Reference/s: TR: 14 Section 3 Layer 2 Report Date / Page: 24/06/2025 <span style="float: right;">Page 2 of 3</span>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	5676/S/25-6540	5676/S/25-6541		
ID / Client ID	Section 3 Layer 2	Section 3 Layer 2		
Lot Number	-	-		
Date / Time Tested	16/06/2025 13:30	16/06/2025 13:30		
Material Source	Onsite	Onsite		
Material Type	General Fill	General Fill		
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b		
Depths: Test / Nom / Actual (mm)	225 / 250 / 250	225 / 250 / 250		
Standard or Modified	Standard	Standard		
Grid	Section 3	Section 3		
Easting (m)	722446.4	722461.5		
Northing (m)	7654115.3	7654157.3		
RL	7.4	7.4		
Test Fraction (mm)	< 19.0 mm	< 19.0 mm		
Sample Oversize (%)	0	0		
Compaction Sample Number	5676/S/25-6540	5676/S/25-6541		
Sample Description	Fill	Fill		
<i>Moisture Test Results:</i>				
Field Moisture Content (%)	14.5	15.0		
<b>Adjusted / Moist. Variation (%)</b>	4.0	0.0		
Optimum Moisture Content (%)	19.0	15.0		
Moisture Variation from OMC	(Drier than OMC)	(Wetter than OMC)		
<b>Moisture Ratio (%)</b>	76.5	100.5		
<i>Density Test Results:</i>				
Field Wet Density (t/m <sup>3</sup> )	2.06	1.99		
Field Dry Density (t/m <sup>3</sup> )	1.80	1.73		
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.10	2.03		
Density Ratio Required (%)	-	-		
<b>Hilf Density Ratio (%)</b>	98.0	98.0		

(Moisture Ratio = (100 x Field Moisture Content) / Optimum Moisture Content. Moisture Ratio calculation not covered by NATA endorsement)

Remarks
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<div style="text-align: center;">Accredited for compliance with ISO/IEC 17025 – Testing</div>  Accreditation Number: 1986 Corporate Site Number: 5676	 Approved Signatory: Craig Goss Form ID: W5ASMRRepSum Rev 4
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## LOT REPORT - WET DENSITY RATIO

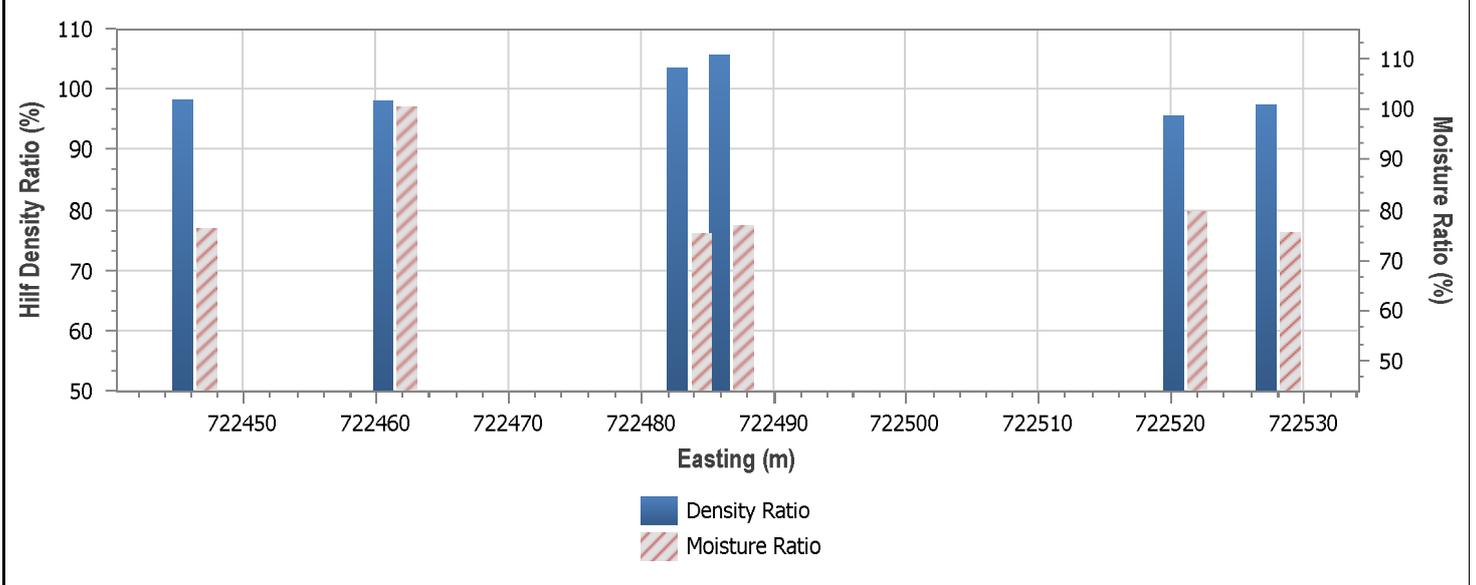
Client: Vassallo Constructions Pty Ltd Client Address: PO BOX 8158, MT PLEASANT Project: 0328- The Waters Ooralea Stage 7 Location: Mackay Supplied To: n/a Area Description:	Report Number: 5676/R/25-2547-1 Project Number: 5676/P/25-1 Lot Number: Internal Test Request: 5676/T/25-1496 Client Reference/s: TR: 14 Section 3 Layer 2 Report Date / Page: 24/06/2025 <span style="float: right;">Page 3 of 3</span>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
Statistical Analysis Test Method:	Lot Average (Lot average calculations are not covered by endorsement)

### Nuclear Gauge Calibration Details

Calibration Number	-	Material Source	-
Calibration Last Updated	-	Material Type	-
Nominated Calibration Layer Depth (mm)	-		

### LOT TEST RESULT SUMMARY



Tests in Lot = 6	Lot Minimum	Lot Maximum	Lot Mean	Standard Deviation
Moisture Ratio (%)	75.3	100.5	80.7	9.831
Hiif Density Ratio (%)	95.5	105.7	99.7	3.991

Lot Number:	-
Mean Moisture Ratio (%):	80.7
Mean Density Ratio (%):	99.7

Remarks

	Accredited for compliance with ISO/IEC 17025 – Testing	
	Accreditation Number: 1986 Corporate Site Number: 5676	Approved Signatory: Craig Goss Form ID: W5ASMRRepSum Rev 4

## LOT REPORT - WET DENSITY RATIO

<p>Client: Vassallo Constructions Pty Ltd</p> <p>Client Address: PO BOX 8158, MT PLEASANT</p> <p>Project: 0328- The Waters Ooralea Stage 7</p> <p>Location: Mackay</p> <p>Supplied To: n/a</p> <p>Area Description:</p>	<p>Report Number: 5676/R/25-3015-1</p> <p>Project Number: 5676/P/25-1</p> <p>Lot Number:</p> <p>Internal Test Request: 5676/T/25-1834</p> <p>Client Reference/s:</p> <p>Report Date / Page: 16/07/2025 <span style="float: right;">Page 1 of 3</span></p>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	5676/S/25-8257	5676/S/25-8258	5676/S/25-8259	5676/S/25-8260
ID / Client ID	Section 5 Layer 1			
Lot Number	-	-	-	-
Date / Time Tested	7/07/2025 11:00	7/07/2025 11:00	7/07/2025 11:00	7/07/2025 11:00
Material Source	Onsite	Onsite	Onsite	Onsite
Material Type	General Fill	General Fill	General Fill	General Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	275 / 300 / 300	275 / 300 / 300	275 / 300 / 300	275 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Grid	Section 5	Section 5	Section 5	Section 5
Easting (m)	7654055.2	7654081.3	7654082.0	7654045.2
Northing (m)	722451.1	722491.3	722521.8	722484.4
RL	7.3	7.2	7.2	7.3
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	5676/S/25-8257	5676/S/25-8258	5676/S/25-8259	5676/S/25-8260
Sample Description	Fill	Fill	Fill	Fill
<i>Moisture Test Results:</i>				
Field Moisture Content (%)	15.2	16.3	16.3	14.2
<b>Adjusted / Moist. Variation (%)</b>	2.5	2.0	0.0	0.5
Optimum Moisture Content (%)	17.5	18.5	16.5	14.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
<b>Moisture Ratio (%)</b>	87.0	88.5	99.5	98.0
<i>Density Test Results:</i>				
Field Wet Density (t/m <sup>3</sup> )	2.05	2.04	2.07	2.00
Field Dry Density (t/m <sup>3</sup> )	1.78	1.75	1.78	1.75
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	1.97	1.99	2.04	2.08
Density Ratio Required (%)	-	-	-	-
<b>Hilf Density Ratio (%)</b>	104.5	102.0	101.0	96.5

(Moisture Ratio = (100 x Field Moisture Content) / Optimum Moisture Content. Moisture Ratio calculation not covered by NATA endorsement)

Remarks
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<p style="text-align: center;">Accredited for compliance with ISO/IEC 17025 – Testing</p>  <p>Accreditation Number: 1986 Corporate Site Number: 5676</p>	 <p>Approved Signatory: Rawiri Gray Form ID: W5ASMRRepSum Rev 4</p>
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## LOT REPORT - WET DENSITY RATIO

<p>Client: Vassallo Constructions Pty Ltd</p> <p>Client Address: PO BOX 8158, MT PLEASANT</p> <p>Project: 0328- The Waters Ooralea Stage 7</p> <p>Location: Mackay</p> <p>Supplied To: n/a</p> <p>Area Description:</p>	<p>Report Number: 5676/R/25-3015-1</p> <p>Project Number: 5676/P/25-1</p> <p>Lot Number:</p> <p>Internal Test Request: 5676/T/25-1834</p> <p>Client Reference/s:</p> <p>Report Date / Page: 16/07/2025 <span style="float: right;">Page 2 of 3</span></p>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	5676/S/25-8261	5676/S/25-8262		
ID / Client ID	Section 5 Layer 1	Section 5 Layer 1		
Lot Number	-	-		
Date / Time Tested	7/07/2025 11:00	7/07/2025 11:00		
Material Source	Onsite	Onsite		
Material Type	General Fill	General Fill		
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b		
Depths: Test / Nom / Actual (mm)	275 / 300 / 300	275 / 300 / 300		
Standard or Modified	Standard	Standard		
Grid	Section 5	Section 5		
Easting (m)	7654057.2	7654046.4		
Northing (m)	722504.7	722537.9		
RL	7.2	7.2		
Test Fraction (mm)	< 19.0 mm	< 19.0 mm		
Sample Oversize (%)	0	0		
Compaction Sample Number	5676/S/25-8261	5676/S/25-8262		
Sample Description	Fill	Fill		
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	17.8	17.8		
<b>Adjusted / Moist. Variation (%)</b>	0.0	0.0		
Optimum Moisture Content (%)	17.5	17.5		
Moisture Variation from OMC	(Wetter than OMC)	(Wetter than OMC)		
<b>Moisture Ratio (%)</b>	101.0	101.0		
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.03	2.07		
Field Dry Density (t/m <sup>3</sup> )	1.72	1.75		
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.08	2.08		
Density Ratio Required (%)	-	-		
<b>Hilf Density Ratio (%)</b>	97.0	99.0		

(Moisture Ratio = (100 x Field Moisture Content) / Optimum Moisture Content. Moisture Ratio calculation not covered by NATA endorsement)

Remarks

 <p style="text-align: center;">Accredited for compliance with ISO/IEC 17025 – Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 5676</p>	 <p>Approved Signatory: Rawiri Gray Form ID: W5ASMRRepSum Rev 4</p>
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## LOT REPORT - WET DENSITY RATIO

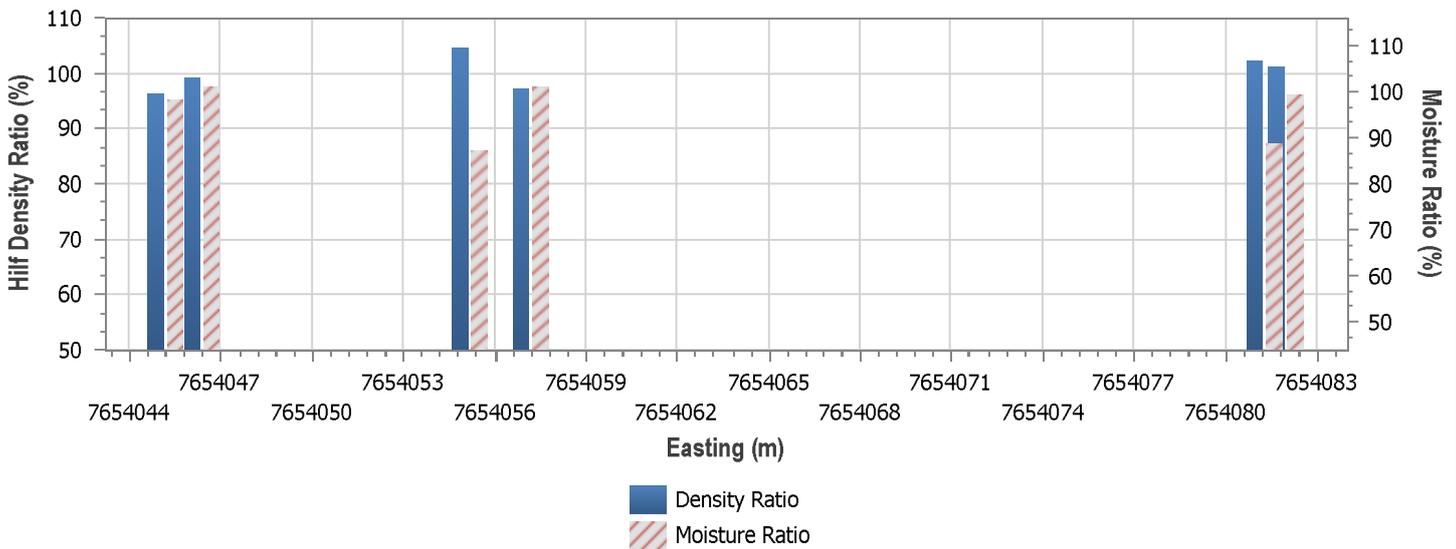
Client: Vassallo Constructions Pty Ltd Client Address: PO BOX 8158, MT PLEASANT Project: 0328- The Waters Ooralea Stage 7 Location: Mackay Supplied To: n/a Area Description:	Report Number: 5676/R/25-3015-1 Project Number: 5676/P/25-1 Lot Number: Internal Test Request: 5676/T/25-1834 Client Reference/s: Report Date / Page: 16/07/2025 <span style="float: right;">Page 3 of 3</span>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
Statistical Analysis Test Method:	Lot Average (Lot average calculations are not covered by endorsement)

### Nuclear Gauge Calibration Details

Calibration Number	-	Material Source	-
Calibration Last Updated	-	Material Type	-
Nominated Calibration Layer Depth (mm)	-		

### LOT TEST RESULT SUMMARY



Tests in Lot = 6	Lot Minimum	Lot Maximum	Lot Mean	Standard Deviation
Moisture Ratio (%)	87.1	101.1	95.9	6.334
Hilf Density Ratio (%)	96.3	104.5	100.1	3.095

Lot Number:	-
Mean Moisture Ratio (%):	95.9
Mean Density Ratio (%):	100.1

Remarks

	Accredited for compliance with ISO/IEC 17025 – Testing	
Accreditation Number: 1986 Corporate Site Number: 5676		Approved Signatory: Rawiri Gray Form ID: W5ASMRRepSum Rev 4

## LOT REPORT - WET DENSITY RATIO

<p>Client: Vassallo Constructions Pty Ltd</p> <p>Client Address: PO BOX 8158, MT PLEASANT</p> <p>Project: 0328- The Waters Ooralea Stage 7</p> <p>Location: Mackay</p> <p>Supplied To: n/a</p> <p>Area Description:</p>	<p>Report Number: 5676/R/25-3062-1</p> <p>Project Number: 5676/P/25-1</p> <p>Lot Number:</p> <p>Internal Test Request: 5676/T/25-1872</p> <p>Client Reference/s:</p> <p>Report Date / Page: 17/07/2025 <span style="float: right;">Page 1 of 3</span></p>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	5676/S/25-8424	5676/S/25-8425	5676/S/25-8426	5676/S/25-8427
ID / Client ID	Section 5 Lift 2			
Lot Number	-	-	-	-
Date / Time Tested	8/07/2025 10:30	8/07/2025 10:30	8/07/2025 10:30	8/07/2025 10:30
Material Source	Onsite	Onsite	Onsite	Onsite
Material Type	General Fill	General Fill	General Fill	General Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	275 / 300 / 300	275 / 300 / 300	275 / 300 / 300	275 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Grid	Section 5	Section 5	Section 5	Section 5
Easting (m)	7654049.3	7654037.2	7654060.8	7654088.7
Northing (m)	722439.7	722483.1	722482.0	722502.3
RL	7.6	7.6	7.6	7.5
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	5676/S/25-8424	5676/S/25-8425	5676/S/25-8426	5676/S/25-8427
Sample Description	Fill	Fill	Fill	Fill
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	15.3	14.5	15.1	15.4
<b>Adjusted / Moist. Variation (%)</b>	2.0	2.0	2.0	2.0
Optimum Moisture Content (%)	17.5	16.5	17.5	17.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
<b>Moisture Ratio (%)</b>	87.5	87.5	87.0	87.5
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.01	2.04	1.99	1.99
Field Dry Density (t/m <sup>3</sup> )	1.75	1.78	1.73	1.73
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.10	2.05	2.06	2.01
Density Ratio Required (%)	-	-	-	-
<b>Hilf Density Ratio (%)</b>	96.0	99.5	96.0	99.0

(Moisture Ratio = (100 x Field Moisture Content) / Optimum Moisture Content. Moisture Ratio calculation not covered by NATA endorsement)

Remarks

 <p style="text-align: center;">Accredited for compliance with ISO/IEC 17025 – Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 5676</p>	 <p>Approved Signatory: Craig Goss Form ID: W5ASMRRepSum Rev 4</p>
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## LOT REPORT - WET DENSITY RATIO

Client: Vassallo Constructions Pty Ltd Client Address: PO BOX 8158, MT PLEASANT Project: 0328- The Waters Ooralea Stage 7 Location: Mackay Supplied To: n/a Area Description:	Report Number: 5676/R/25-3062-1 Project Number: 5676/P/25-1 Lot Number: Internal Test Request: 5676/T/25-1872 Client Reference/s: Report Date / Page: 17/07/2025 <span style="float: right;">Page 2 of 3</span>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	5676/S/25-8428	5676/S/25-8429	
ID / Client ID	Section 5 Lift 2	Section 5 Lift 2	
Lot Number	-	-	
Date / Time Tested	8/07/2025 10:30	8/07/2025 10:30	
Material Source	Onsite	Onsite	
Material Type	General Fill	General Fill	
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	
Depths: Test / Nom / Actual (mm)	275 / 300 / 300	275 / 300 / 300	
Standard or Modified	Standard	Standard	
Grid	Section 5	Section 5	
Easting (m)	7654075.9	7654046.6	
Northing (m)	722528.1	722516.4	
RL	7.5	7.5	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	
Sample Oversize (%)	0	0	
Compaction Sample Number	5676/S/25-8428	5676/S/25-8429	
Sample Description	Fill	Fill	
<b>Moisture Test Results:</b>			
Field Moisture Content (%)	15.7	14.8	
<b>Adjusted / Moist. Variation (%)</b>	2.0	2.0	
Optimum Moisture Content (%)	18.0	17.0	
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	
<b>Moisture Ratio (%)</b>	88.0	87.5	
<b>Density Test Results:</b>			
Field Wet Density (t/m <sup>3</sup> )	2.03	2.03	
Field Dry Density (t/m <sup>3</sup> )	1.76	1.77	
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	1.98	2.02	
Density Ratio Required (%)	-	-	
<b>Hilf Density Ratio (%)</b>	102.5	100.5	

(Moisture Ratio = (100 x Field Moisture Content) / Optimum Moisture Content. Moisture Ratio calculation not covered by NATA endorsement)

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
	Approved Signatory: Craig Goss Form ID: W5ASMRRepSum Rev 4
Accreditation Number: 1986 Corporate Site Number: 5676	

## LOT REPORT - WET DENSITY RATIO

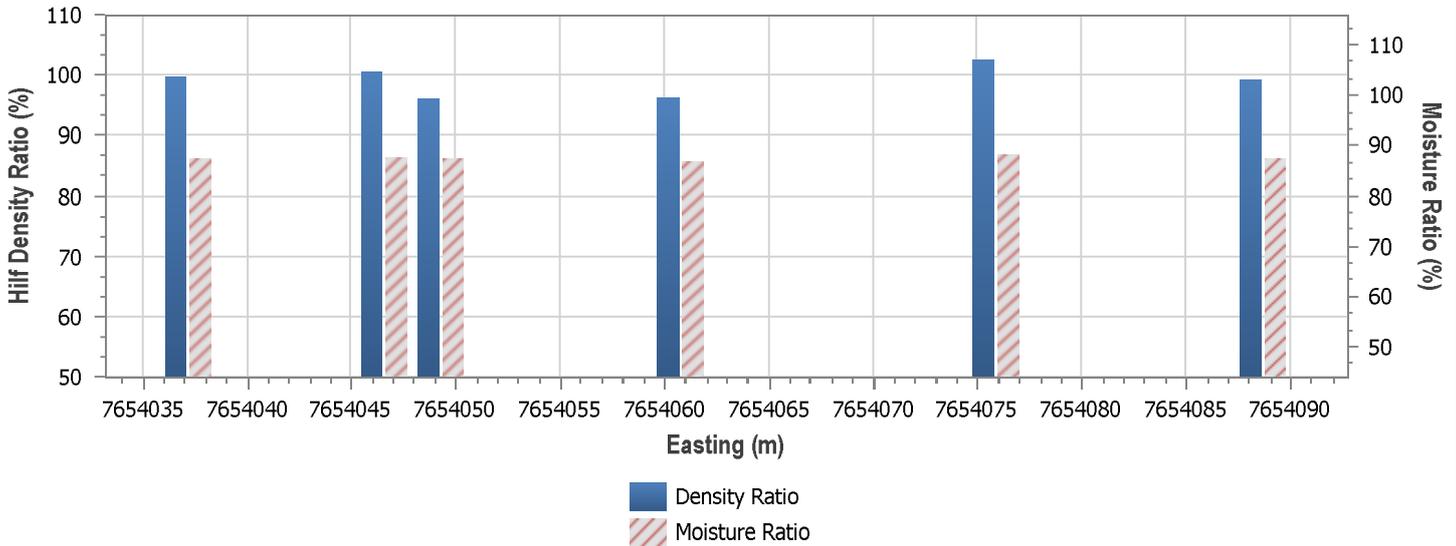
Client: Vassallo Constructions Pty Ltd Client Address: PO BOX 8158, MT PLEASANT Project: 0328- The Waters Ooralea Stage 7 Location: Mackay Supplied To: n/a Area Description:	Report Number: 5676/R/25-3062-1 Project Number: 5676/P/25-1 Lot Number: Internal Test Request: 5676/T/25-1872 Client Reference/s: Report Date / Page: 17/07/2025 <span style="float: right;">Page 3 of 3</span>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
Statistical Analysis Test Method:	Lot Average (Lot average calculations are not covered by endorsement)

### Nuclear Gauge Calibration Details

Calibration Number	-	Material Source	-
Calibration Last Updated	-	Material Type	-
Nominated Calibration Layer Depth (mm)	-		

### LOT TEST RESULT SUMMARY



Tests in Lot = 6	Lot Minimum	Lot Maximum	Lot Mean	Standard Deviation
Moisture Ratio (%)	86.8	88.2	87.5	0.449
Half Density Ratio (%)	96.1	102.5	99.0	2.519

Lot Number:	-
Mean Moisture Ratio (%):	87.5
Mean Density Ratio (%):	99.0

Remarks

	Accredited for compliance with ISO/IEC 17025 – Testing	
Accreditation Number: 1986 Corporate Site Number: 5676		Approved Signatory: Craig Goss Form ID: W5ASMRRepSum Rev 4

## LOT REPORT - WET DENSITY RATIO

<p>Client: Vassallo Constructions Pty Ltd</p> <p>Client Address: PO BOX 8158, MT PLEASANT</p> <p>Project: 0328- The Waters Ooralea Stage 7</p> <p>Location: Mackay</p> <p>Supplied To: n/a</p> <p>Area Description:</p>	<p>Report Number: 5676/R/25-3063-1</p> <p>Project Number: 5676/P/25-1</p> <p>Lot Number:</p> <p>Internal Test Request: 5676/T/25-1873</p> <p>Client Reference/s:</p> <p>Report Date / Page: 17/07/2025 <span style="float: right;">Page 1 of 3</span></p>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	5676/S/25-8430	5676/S/25-8431	5676/S/25-8432	5676/S/25-8433
ID / Client ID	-	-	-	-
Lot Number	-	-	-	-
Date / Time Tested	9/07/2025 11:00	9/07/2025 11:00	9/07/2025 11:00	9/07/2025 11:00
Material Source	Onsite	Onsite	Onsite	Onsite
Material Type	General Fill	General Fill	General Fill	General Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	275 / 300 / 300	275 / 300 / 300	275 / 300 / 300	275 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Grid	Section 5	Section 5	Section 5	Section 5
Easting (m)	7654055.2	7654058.6	7654079.2	7654059.8
Northing (m)	722452.1	722481.7	722488.3	722510.9
RL	7.9	7.9	7.9	8.0
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	5676/S/25-8430	5676/S/25-8431	5676/S/25-8432	5676/S/25-8433
Sample Description	Fill	Fill	Fill	Fill
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	15.8	14.9	14.6	15.1
<b>Adjusted / Moist. Variation (%)</b>	2.0	2.0	2.0	2.0
Optimum Moisture Content (%)	18.0	17.0	17.0	17.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
<b>Moisture Ratio (%)</b>	87.5	88.0	87.0	87.5
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	1.98	2.02	2.04	1.98
Field Dry Density (t/m <sup>3</sup> )	1.71	1.76	1.78	1.72
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.04	2.02	2.00	2.02
Density Ratio Required (%)	-	-	-	-
<b>Hilf Density Ratio (%)</b>	97.0	100.0	102.0	98.0

(Moisture Ratio = (100 x Field Moisture Content) / Optimum Moisture Content. Moisture Ratio calculation not covered by NATA endorsement)

Remarks

<p>Accredited for compliance with ISO/IEC 17025 – Testing</p>	
 <p>Accreditation Number: 1986 Corporate Site Number: 5676</p>	<p>Approved Signatory: Craig Goss Form ID: W5ASMRRepSum Rev 4</p>

## LOT REPORT - WET DENSITY RATIO

<p>Client: Vassallo Constructions Pty Ltd</p> <p>Client Address: PO BOX 8158, MT PLEASANT</p> <p>Project: 0328- The Waters Ooralea Stage 7</p> <p>Location: Mackay</p> <p>Supplied To: n/a</p> <p>Area Description:</p>	<p>Report Number: 5676/R/25-3063-1</p> <p>Project Number: 5676/P/25-1</p> <p>Lot Number:</p> <p>Internal Test Request: 5676/T/25-1873</p> <p>Client Reference/s:</p> <p>Report Date / Page: 17/07/2025 <span style="float: right;">Page 2 of 3</span></p>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	5676/S/25-8434	5676/S/25-8435		
ID / Client ID	-	-		
Lot Number	-	-		
Date / Time Tested	9/07/2025 11:00	9/07/2025 11:00		
Material Source	Onsite	Onsite		
Material Type	General Fill	General Fill		
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b		
Depths: Test / Nom / Actual (mm)	275 / 300 / 300	275 / 300 / 300		
Standard or Modified	Standard	Standard		
Grid	Section 5	Section 5		
Easting (m)	7654077.6	7654058.8		
Northing (m)	722519.9	722535.5		
RL	7.9	7.9		
Test Fraction (mm)	< 19.0 mm	< 19.0 mm		
Sample Oversize (%)	0	0		
Compaction Sample Number	5676/S/25-8434	5676/S/25-8435		
Sample Description	Fill	Fill		
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	14.6	14.5		
<b>Adjusted / Moist. Variation (%)</b>	2.0	1.5		
Optimum Moisture Content (%)	16.5	16.0		
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)		
<b>Moisture Ratio (%)</b>	89.0	90.0		
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.02	2.01		
Field Dry Density (t/m <sup>3</sup> )	1.77	1.75		
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.05	2.06		
Density Ratio Required (%)	-	-		
<b>Hilf Density Ratio (%)</b>	98.5	97.5		

(Moisture Ratio = (100 x Field Moisture Content) / Optimum Moisture Content. Moisture Ratio calculation not covered by NATA endorsement)

Remarks
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<p style="text-align: center;">Accredited for compliance with ISO/IEC 17025 – Testing</p>  <p>Accreditation Number: 1986 Corporate Site Number: 5676</p>	 <p>Approved Signatory: Craig Goss Form ID: W5ASMRRepSum Rev 4</p>
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## LOT REPORT - WET DENSITY RATIO

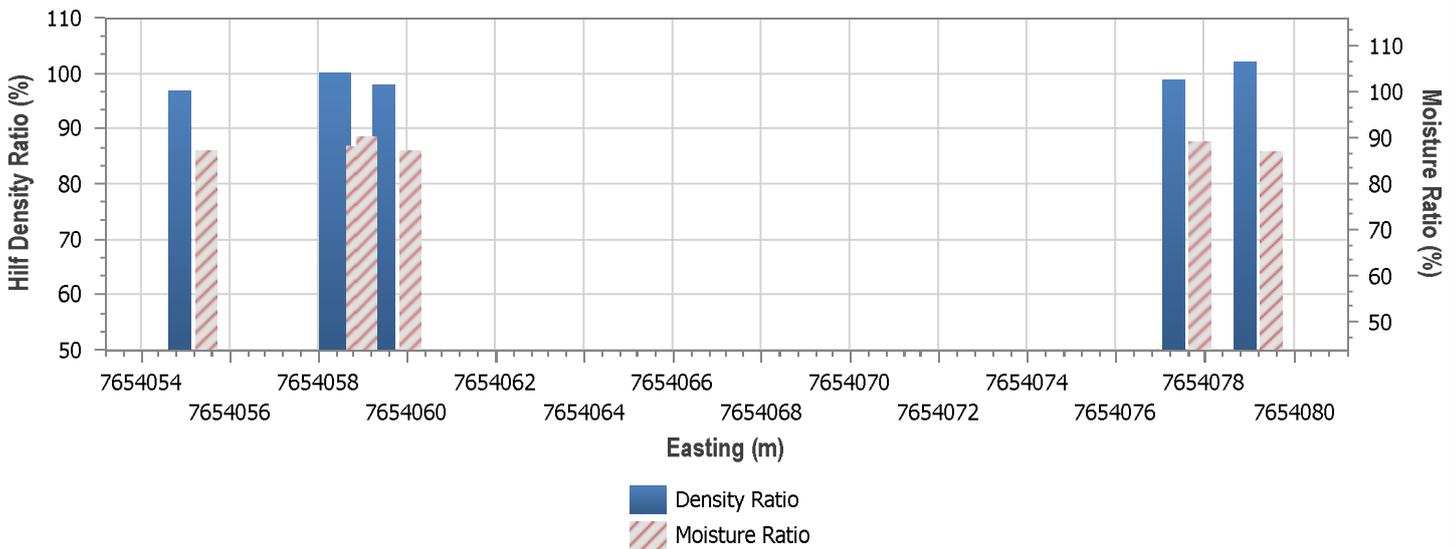
Client: Vassallo Constructions Pty Ltd Client Address: PO BOX 8158, MT PLEASANT Project: 0328- The Waters Ooralea Stage 7 Location: Mackay Supplied To: n/a Area Description:	Report Number: 5676/R/25-3063-1 Project Number: 5676/P/25-1 Lot Number: Internal Test Request: 5676/T/25-1873 Client Reference/s: Report Date / Page: 17/07/2025 <span style="float: right;">Page 3 of 3</span>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
Statistical Analysis Test Method:	Lot Average (Lot average calculations are not covered by endorsement)

### Nuclear Gauge Calibration Details

Calibration Number	-	Material Source	-
Calibration Last Updated	-	Material Type	-
Nominated Calibration Layer Depth (mm)	-		

### LOT TEST RESULT SUMMARY



Tests in Lot = 6	Lot Minimum	Lot Maximum	Lot Mean	Standard Deviation
Moisture Ratio (%)	86.9	90.1	88.1	1.227
Hiif Density Ratio (%)	96.8	102.1	98.8	1.990

Lot Number:	-
Mean Moisture Ratio (%):	88.1
Mean Density Ratio (%):	98.8

Remarks

 <p style="text-align: center;">Accredited for compliance with ISO/IEC 17025 – Testing</p> <p>Accreditation Number: 1986          Corporate Site Number: 5676</p>	 Approved Signatory: Craig Goss Form ID: W5ASMRRepSum Rev 4
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## LOT REPORT - WET DENSITY RATIO

Client: Vassallo Constructions Pty Ltd	Report Number: 5676/R/25-3248-1
Client Address: PO BOX 8158, MT PLEASANT	Project Number: 5676/P/25-1
Project: 0328- The Waters Ooralea Stage 7	Lot Number:
Location: Mackay	Internal Test Request: 5676/T/25-1990
Supplied To: n/a	Client Reference/s: WR 15014
Area Description:	Report Date / Page: 28/07/2025 <span style="float: right;">Page 1 of 2</span>

Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	5676/S/25-8931	5676/S/25-8932	5676/S/25-8933	
ID / Client ID	-	-	-	
Lot Number	-	-	-	
Date / Time Tested	23/07/2025 08:50	23/07/2025 09:05	23/07/2025 09:11	
Material Source	Existing Material	Existing Material	Existing Material	
Material Type	GST	GST	GST	
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	
Depths: Test / Nom / Actual (mm)	150 / 175 / 175	150 / 175 / 175	150 / 175 / 175	
Standard or Modified	Standard	Standard	Standard	
Location:	Lot 742 / Lot 742	Lot 747	Lot 746	
	Centre of Lot	Centre of Lot	Centre of Lot	
	GST	GST	GST	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	
Sample Oversize (%)	0	0	0	
Compaction Sample Number	5676/S/25-8931	5676/S/25-8932	5676/S/25-8933	
Sample Description	Fill	Fill	Existing	
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	28.3	11.4	13.7	
<b>Adjusted / Moist. Variation (%)</b>	1.5	1.5	1.5	
Optimum Moisture Content (%)	30.0	13.0	15.0	
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	
<b>Moisture Ratio (%)</b>	94.0	89.0	90.0	
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	1.87	2.11	2.06	
Field Dry Density (t/m <sup>3</sup> )	1.46	1.89	1.81	
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	1.94	2.10	2.13	
Density Ratio Required (%)	95	95	95	
<b>Hilf Density Ratio (%)</b>	96.5	100.5	96.5	

(Moisture Ratio = (100 x Field Moisture Content) / Optimum Moisture Content. Moisture Ratio calculation not covered by NATA endorsement)

Remarks

<p>Accredited for compliance with ISO/IEC 17025 – Testing</p>  <p>Accreditation Number: 1986 Corporate Site Number: 5676</p>	 <p>Approved Signatory: Rawiri Gray Form ID: W5ASMRRepSum Rev 4</p>
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## LOT REPORT - WET DENSITY RATIO

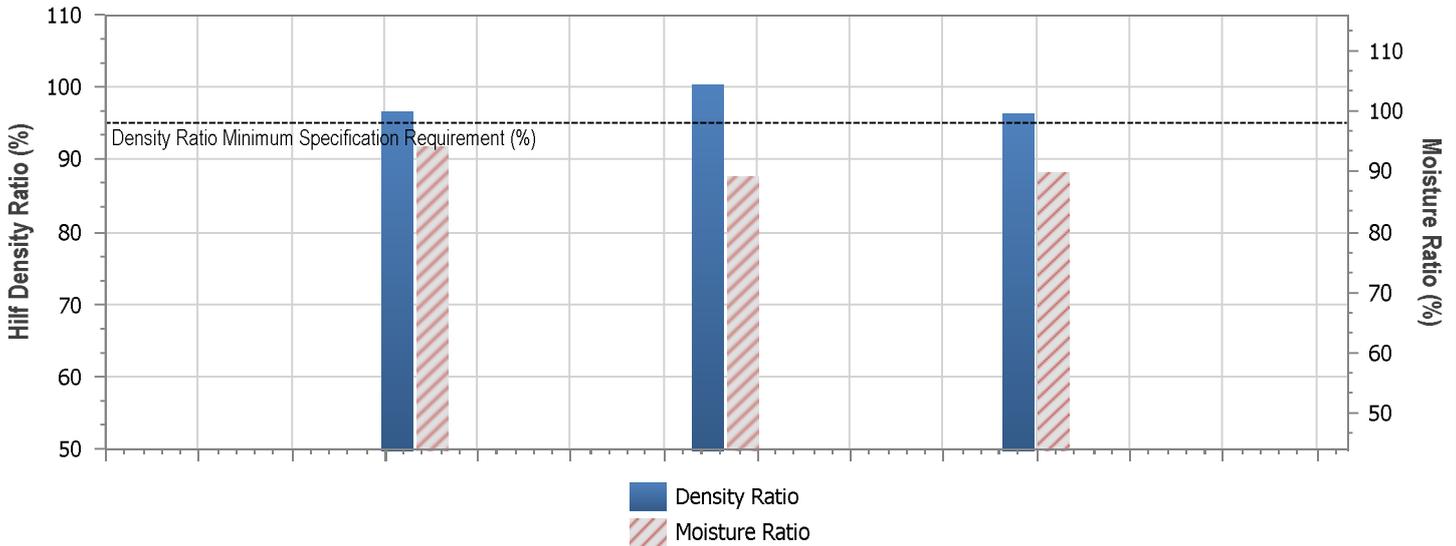
Client: Vassallo Constructions Pty Ltd Client Address: PO BOX 8158, MT PLEASANT Project: 0328- The Waters Ooralea Stage 7 Location: Mackay Supplied To: n/a Area Description:	Report Number: 5676/R/25-3248-1 Project Number: 5676/P/25-1 Lot Number: Internal Test Request: 5676/T/25-1990 Client Reference/s: WR 15014 Report Date / Page: 28/07/2025 <span style="float: right;">Page 2 of 2</span>
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Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
Statistical Analysis Test Method:	Lot Average (Lot average calculations are not covered by endorsement)

### Nuclear Gauge Calibration Details

Calibration Number	-	Material Source	-
Calibration Last Updated	-	Material Type	-
Nominated Calibration Layer Depth (mm)	-		

### LOT TEST RESULT SUMMARY



Tests in Lot = 3	Lot Minimum	Lot Maximum	Lot Mean	Standard Deviation
Moisture Ratio (%)	89.1	94.1	91.0	2.686
Half Density Ratio (%)	96.3	100.3	97.8	2.194

Lot Number:	-
Mean Moisture Ratio (%):	91.0
Mean Density Ratio (%):	97.8

Remarks

	Accredited for compliance with ISO/IEC 17025 – Testing	
	Accreditation Number: 1986 Corporate Site Number: 5676	Approved Signatory: Rawiri Gray Form ID: W5ASMRRepSum Rev 4

0328-The Waters,  
Ooralea Stage 7

APPENDIX

C

ALLOTMENT FILL  
MAP

# Test Location Sketch



Test Locations Only

Not To Scale



Cnr Success St & Progress Dr  
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 Facsimile: (07) 4952 4173

**Vassallo Constructions Pty Ltd**

**The Water's Ooralea Stage 7**

**GST Test Location's**

**Job No.:**  
**5676/P/25-1**

**Reference No.:**  
**5676/T/25-1062**

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