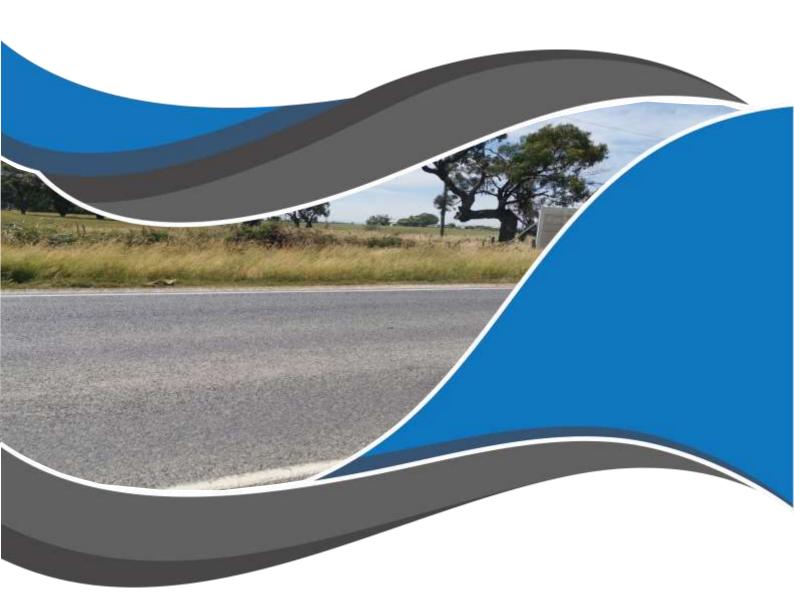
Wallara Waters Estate - Stage 16, Wallan

Level 1 Inspection & Testing Report

Reference: 1120 0414-1



Prepared for:

Bild Group

May 2023



Document Control Record

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Disclaimer

The findings and conclusions contained in this report are made based on site conditions that existed at the time this work was conducted. The conclusions present in this report are relevant to the conditions of the site and the state of legislation currently enacted as at the date of this report.

Findings and conclusions are made assuming that the soil, groundwater, geological and chemical conditions detailed within this report are accurate and remain applicable to the site at the time of writing. No other warranties are made or intended.

A&Y Associates (A&Y) Pty Ltd has used a degree of skill and care ordinarily exercised by reputable members of our profession practicing in the same or similar locality.

A&Y does not make any representation or warranty that the conclusions in this report will be applicable in the future as there may be changes in the condition of the site, applicable legislation or other factors that would affect the conclusions contained in this report.

This report has been prepared exclusively for use by our client. This report cannot be reproduced without the written authorisation of A&Y and then can only be reproduced in its entirety.

Applicability

This report has been prepared for the benefit for our client with respect to the particular brief given to us and it may not be relied upon in other contexts or for any other purpose without our prior review and agreement.

No responsibility for this report will be taken by A&Y if it is altered in any way, or not reproduced in full.

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1 Introduction

This report presents the results of the Level 1 Inspection and Testing for the construction of the fill platforms located in Wallara Waters Estate - Stage 16, Wallan.

2 Project Summary

It is understood that Bild Group require the fill platforms within Stage 16 to be constructed under Level 1 Inspection and Testing undertaken by a Geotechnical Inspection and Testing Authority (GITA).

Level 1 Inspection and Testing, as defined in AS3798-2007 "Guidelines on Earthworks for Commercial and Residential Development," provides for full time inspection of the construction of controlled fill and field and laboratory testing in accordance with AS1289 "Methods of Testing Soils for Engineering Purposes".

The Level 1 inspection was undertaken by a Geotechnician from A&Y Associates over a period of eleven (11) working days from the 23rd of June 2022 to 2nd of August 2022. This report is applicable for fill placed by Bild Group for the following lots located in Wallara Waters Estate, Stage 16 - Wallan, as shown in Appendix A – Site Plan.

- Lot No. 1602,1603
- Lot No. 1608 to 1636
- Lot No. 1645,1646,1651

3 Project Specifications

No specification on the compaction and moisture requirement has been provided for the construction works in Wallara Waters Estate, Wallan - Stage 16. However, based on drawing (ref: 20569E/16R1-Ver C prepared by Reeds Consulting) all fill areas should be prepared and tested under level 1 supervision in accordance with AS3798. The supervision and inspections were performed based on AS3798. A short summary of the requirement outlined in AS3798 is provided below:

- Material to be used for fill construction shall satisfy the requirements of AS3798-2007 "Guidelines on Earthworks for Commercial and Residential Developments". Material used shall be free of:
 - o Organic soils, such as topsoils, severely root affected subsoil and peat;
 - o Contaminated soils;
 - Materials which undergo volume change or loss of strength when disturbed and exposed to moisture;
 - o Silts, or materials that have deleterious engineering properties of silt;
 - Fill that contains wood, metal, plastic, boulders, or other deleterious material, in sufficient proportions to affect the required performance of fill;
 - o The maximum particle size of any rocks or other lump, within the layer, has not exceeded two-thirds (2/3) of the compacted layer thickness.
- Compaction to achieve a dry density ratio of at least 95% Standard, as the project was classified as Residential.

4 Subgrade Assessment

The subgrade was assessed by A&Y Associates following the topsoil removal and before any fill was placed. The subgrade assessment was undertaken on the 22nd June 2022 as mentioned in report 1120 0414-1 (SSII).

The exposed subgrade material was found comprised of silty clay. No wet or soft patches were found during the inspection. No evidence of deleterious material was found during the inspection.

5 Earthworks

The earthworks for this project included stripping of topsoil, removing of tree roots, proof rolling the subgrade and placement and compaction of fill to construct engineered platforms.

Based on design plans and site inspection, it appears that the fill thickness placed is approximately 200mm - 600mm. The fill layers or thickness nominated in this report are provided as a guide on the amounts of fill placed and do not necessarily reflect an accurate survey of the fill levels.

6 Fill Material

The fill material used for the platform consisted of site derived material. The material was predominantly comprising of Silty Clay with gravels.

7 Testing

Field density testing was undertaken on the compacted fill at a frequency of a minimum of 3 tests per day (AS3798 Table 8.1).

Tests were performed using a Nuclear Density Gauge for field density determination as per AS 1289.5.8.1. Testing was completed at a minimum rate of 3 field density tests per day's production based on the minimum requirements of AS 3798-2007 and taken from each layer of fill placed.

A total of 33 field density tests were performed during the earthworks. All of the test results met the specified compaction requirement of 95% Standard Compaction.

The locations of the 33 field density tests are shown in Appendix B – Test Locations. A summary of the test results obtained from the field density testing is presented in Appendix C – Test Results Summary. The laboratory test reports of the field density tests are presented in Appendix D – NATA Test Results.

8 Finished Surface Levels

It should be noted that even though the final fill layer meets the specification requirements, over time, the material may be subject to adverse weather conditions resulting in either surface softening or drying and cracking. The top 150mm – 200mm of the fill will deteriorate with time and should be considered by the foundation engineer.

9 Exclusion

A&Y Associates was not involved in monitoring and testing the following works and as such are not included in the Level 1 report.

- Any trenches excavated and backfilled on site for the installation of underground services such as sewers, electrical conduits, water mains etc.
- Footpaths in front of the lots that may be excavated and filled after the Level
 1 supervision conducted by A&Y Associates.
- Uncontrolled fill and topsoil that may have been placed as part of the landscaping of the site following the completion of the engineered fill construction.

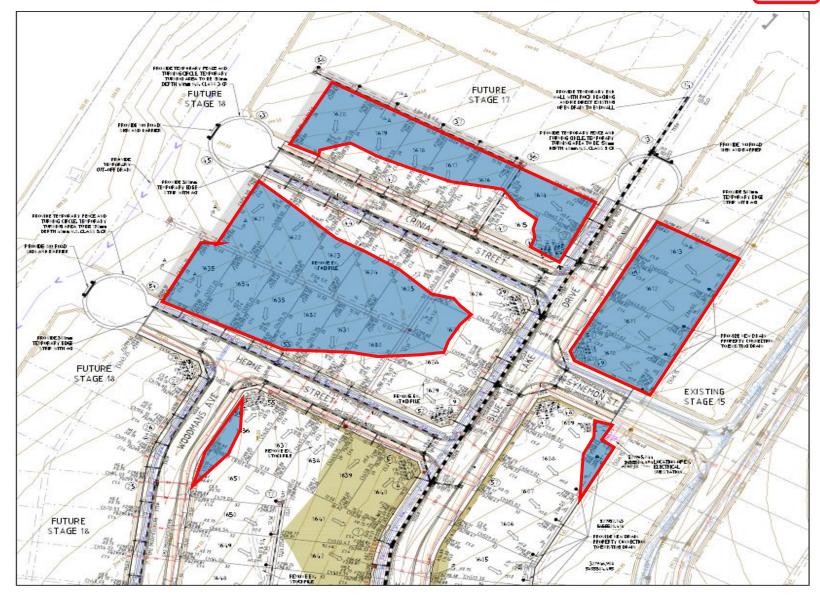
10 Conclusion

On the completion of the earthworks and after analysing the materials used, it has been concluded that the filling procedure conducted by Bild Group appears to be consistent with the requirements of AS 3798 in regards to the placement of fill materials on a project under Level 1 Supervision and in accordance with the project specification as provided to A&Y Associates.

Appendix A - Site Plan







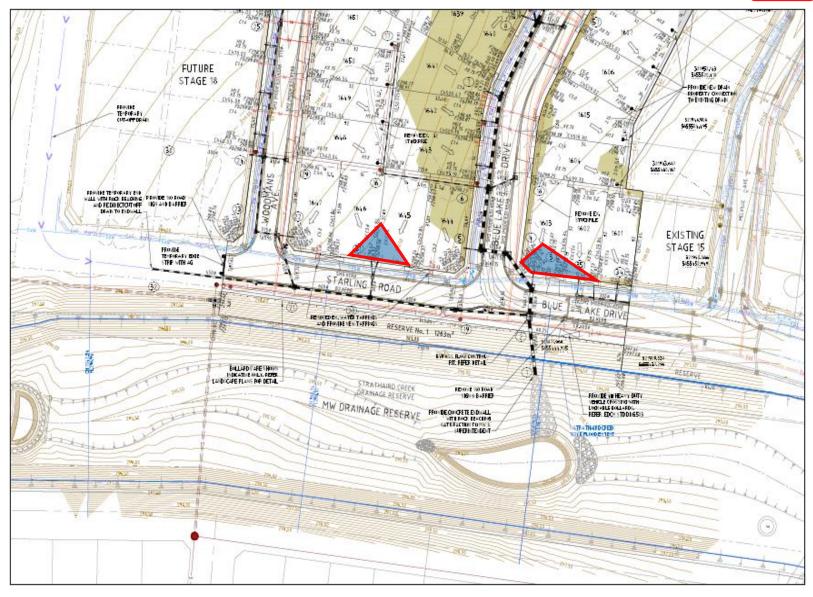
PROJECT:	CLIENT:
Wallara Waters Estate - Stage 16	Bild Group
LOCATION:	PROJECT No:
Wallan	1120 0414-1

A&Y ASSOCIATES

GEOTECHNICAL ENGINEERING CONSULTANTS





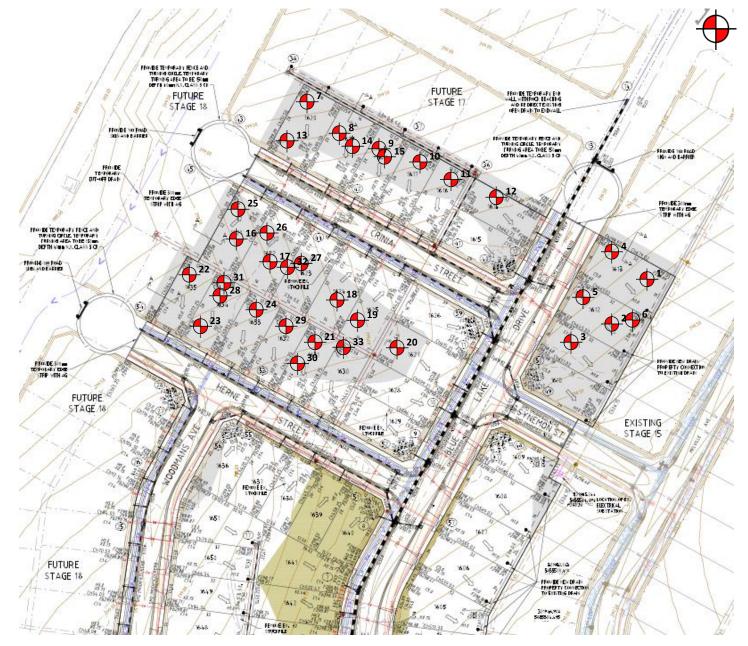


PROJECT:	CLIENT:
Wallara Waters Estate - Stage 16	Bild Group
LOCATION:	PROJECT No:
LOCATION.	PROJECT NO.
Wallan	1120 0414-1



Appendix B – Test Locations





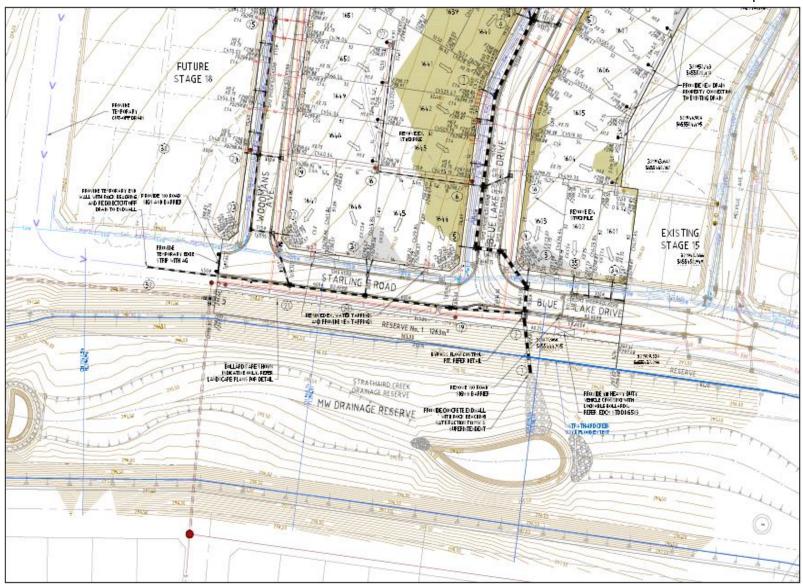
PROJECT:	CLIENT:
Wallara Waters Estate Stage 16 (Level 1)	Bild Group
LOCATION:	PROJECT No:
Wallan	1120 0414-1

SITE PLAN SKETCH—NOT TO SCALE









PROJECT:	CLIENT:
Wallara Waters Estate Stage 16 (Level 1)	Bild Group
LOCATION:	PROJECT No:
Wallan	1120 0414-1

SITE PLAN SKETCH—NOT TO SCALE

A&Y ASSOCIATES
GEOTECHNICAL ENGINEERING CONSULTANTS

<u>Appendi</u>	<u>ix C – Tes</u>	t Results	Summary	

Project No)	1120 0414-1			Client	Bild Group					
Project Na	me	Wallara Water	s Estate –	Stage 16	Consideration		Donaity Dati	Dancity Patio > 05% of Book Wat Dancity			
Location		Wallan				Specificatior	1	Density Rati	Density Ratio ≥ 95% of Peak Wet Density		
Test No	Retest of Test	Date	Location	Layer	Oversize	Density Ratio	Moisture Ratio	Moisture Variation	Pass / Fail	Retest	
#	#		Lot #	#	%	%	%	%		Pass / Fail	
1	-	23/06/2022	-	1	8.0	96.0	92.0	-1.5	Pass	-	
2	-	23/06/2022	-	1	8.8	96.5	94.0	-1.0	Pass	-	
3	-	23/06/2022	-	1	6.2	98.5	91.0	-1.5	Pass	-	
4	-	24/06/2022	-	2	8.8	97.5	90.0	-2.0	Pass	-	
5	-	24/06/2022	-	2	9.9	97.0	92.0	-1.0	Pass	-	
6	-	24/06/2022	-	2	8.0	95.5	94.5	-1.0	Pass	-	
7	-	1/07/2022	-	1	10.9	97.0	90.5	-2.0	Pass	-	
8	-	1/07/2022	-	1	8.2	96.5	90.0	-2.0	Pass	-	
9	-	1/07/2022	-	1	7.0	98.0	90.5	-2.0	Pass	-	
10	-	4/07/2022	-	1	11.0	97.5	92.0	-2.0	Pass	-	
11	1	4/07/2022	-	1	7.8	96.5	91.0	-2.0	Pass	-	
12	ı	4/07/2022	=	1	7.0	98.0	100.5	0.0	Pass	-	
13	ı	5/07/2022	-	2	6.9	97.5	92.0	-2.0	Pass	-	
14	1	5/07/2022	-	2	8.0	95.0	91.0	-2.0	Pass	-	
15	ı	5/07/2022	=	2	6.0	95.0	90.0	-2.0	Pass	-	
16	ı	6/07/2022	-	1	3.9	95.0	91.0	-2.0	Pass	-	
17	-	6/07/2022	-	1	4.8	95.5	92.5	-2.0	Pass	-	
18	ı	6/07/2022	=	1	5.2	95.0	92.0	-2.0	Pass	1	
19	-	7/07/2022	-	1	8.0	95.0	100.0	0.0	Pass	-	
20	-	7/07/2022	-	1	8.0	95.5	98.0	0.0	Pass	-	
21	-	7/07/2022	-	1	10.0	95.0	99.0	0.0	Pass	-	
22	-	13/07/2022	-	1	12.0	95.5	100.0	0.0	Pass	-	
23	-	13/07/2022	-	1	12.0	95.0	98.0	-0.5	Pass	-	
24	-	13/07/2022		1	8.9	95.5	98.5	-0.5	Pass	-	
25	-	16/07/2022	-	2	9.9	95.0	90.0	-2.0	Pass	-	

^{**} Negative (-) value indicates that the field moisture content is drier than the optimum moisture content (OMC)



^{**} Positive (+) value indicates that the field moisture content is wetter than the optimum moisture content (OMC)

26	-	16/07/2022	-	2	8.9	97.0	98.0	-0.5	Pass	-
27	-	16/07/2022	-	2	11.0	95.0	90.5	-1.5	Pass	-
28	-	23/07/2022	-	2	6.0	98.0	90.5	-2.0	Pass	-
29	-	23/07/2022	-	2	8.0	95.0	90.0	-2.0	Pass	-
30	-	23/07/2022	-	2	8.0	96.5	103.0	0.5	Pass	-
31	-	2/08/2022	1	3	9.0	95.0	90.0	-2.0	Pass	-
32	-	2/08/2022	-	3	5.0	96.0	95.0	-1.0	Pass	-
33	-	2/08/2022	-	3	8.0	97.5	93.5	-1.5	Pass	-



^{**} Negative (-) value indicates that the field moisture content is drier than the optimum moisture content (OMC)

^{**} Positive (+) value indicates that the field moisture content is wetter than the optimum moisture content (OMC)

<u>Appendix</u>	<u>D – NATA I</u>	<u>'est Results</u>



A & Y Associates Pty Ltd 5/16 Network Drive Truganina VIC 3029 PH: 0400 413 531 info@ayassociates.com.au

Client:		Bild Group				Job No:	BDG2835
Project:		Wallara Waters	Estate Stage 1	Report:	1		
Location:		Wallan					
	ı						1
Sample No		1	2	3			
Date Tested		23/06/2022	23/06/2022	23/06/2022			
Time Tested		PM	PM	PM			
Test Location		Refer	Refer	Refer			
		to	to	to			
		Plan	Plan	Plan			
Level/Layer		1	1	1			
Layer Thickness	mm	200	200	200			
Test Depth	mm	175	175	175			
Field Wet Density	t/m³	1.89	1.94	1.89			
Field Moisture Content	%	18.8	16.5	19.1			
Material:		Site Derived Clay	Site Derived Clay	Site Derived Clay			
							•
Oversize Material	WET, %	8.0	8.8	6.2			
Sieve Size	mm	19	19	19			
Peak Converted Wet Density	t/m³	1.96	1.99	1.94			
Optimum Moisture Content	%	20.5	17.5	21			
							_
Moisture Ratio	%	92	94	91			
Moisture Variation	%	-1.5	-1.0	-1.5			
from OMC		Drier	Drier	Drier			
Density Ratio	%	96.0	96.5	98.5			
Specification:	95% STD				Test Selection:		N/A
Notes:	Ref : 1120	0414-1 (SI01)					
Test Method	AS1289 5.8	8.1, 5.7.1, 2.1.1, 1.1			Sampling Method:	AS 1289	1.2.1 6.4(b)



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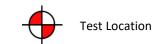
The results of tests, calibrations and/or measurements included $\label{eq:calibration} % \[\frac{1}{2} \left(\frac{1}{$

in this document, are traceable to Australian / National Standards

Approved Signatory:

David Burns 5/10/2022







PROJECT: Wallara Waters Estate Stage 16 (Level 1)		DATE: 23/06/2022	
LOCATION:	PROJECT No:	SITE PLAN SKETCH—NOT TO SCALE	•
Wallan	1120 0414-1 (SI01)		





A & Y Associates Pty Ltd 5/16 Network Drive Truganina VIC 3029 PH: 0400 413 531 in fo@ay as sociates.com.au

Client:		Bild Group				Job No:	BDG2835
Project:		Wallara Waters	Estate Stage 1	6 (Level 1)		Report:	2
Location:		Wallan					
	ı						1
Sample No		4	5	6			
Date Tested		24/06/2022	24/06/2022	24/06/2022			
Time Tested		PM	PM	PM			
							•
Test Location		Refer	Refer	Refer			
		to	to	to			
		Plan	Plan	Plan			
Level/Layer		2	2	2			
Layer Thickness	mm	200	200	200			
Test Depth	mm	175	175	175			
Field Wet Density	t/m³	1.96	1.89	1.89			
Field Moisture Content	%	18.0	17.9	16.6			
Material:		Site Derived Clay	Site Derived Clay	Site Derived Clay			
							•
Oversize Material	WET, %	8.8	9.9	8.0			
Sieve Size	mm	19	19	19			
Peak Converted Wet Density	t/m³	1.98	1.96	1.96			
Optimum Moisture Content	%	20	19.5	17.5			
					•		
Moisture Ratio	%	90	92	94.5			
Moisture Variation	%	-2.0	-1.0	-1.0			
from OMC		Drier	Drier	Drier			
Density Ratio	%	97.5	97.0	95.5			
Specification:	95% STD				Test Selection:		N/A
Notes:	Ref: 1120	0414-1 (SI02)					
Test Method	AS1289 5.8	8.1, 5.7.1, 2.1.1, 1.1			Sampling Method:	AS 1289	9 1.2.1 6.4(b)

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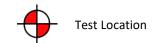
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Approved Signatory:

David Burns 5/10/2022







PROJECT:	CLIENT:	DATE:	
Wallara Waters Estate Stage 16 (Level 1)	Bild Group	24/06/2022	
LOCATION: Wallan	PROJECT No: 1120 0414-1 (SI02)	SITE PLAN SKETCH—NOT TO SCALE	





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info@ayassociates.com.au

Client:		Bild Group			Job No:	BDG2835
Project:		Wallara Waters	Estate Stage 1	6 (Level 1)	Report:	3
Location:		Wallan				
Sample No		7	8	9		Τ
Date Tested		1/07/2022	1/07/2022	1/07/2022		1
Time Tested		PM	PM	PM		
					_	
Test Location		Refer	Refer	Refer		
		to	to	to		
		Plan	Plan	Plan		
Level/Layer		1	1	1		_
Layer Thickness	mm	200	200	200		
Test Depth	mm	175	175	175		
Field Wet Density	t/m³	1.95	1.93	1.96		
Field Moisture Content	%	18.5	19.9	21.2		
Material:		Site Derived Clay	Site Derived Clay	Site Derived Clay		
Oversize Material	WET, %	10.9	8.2	7.0		
Sieve Size	mm	19	19	19		
Peak Converted Wet Density	t/m³	1.99	1.97	1.98		
Optimum Moisture Content	%	20.5	22	23.5		
Moisture Ratio	%	90.5	90	90.5		
Moisture Variation	%		-2.0	-2.0		
from OMC		Drier	Drier	Drier		
Density Ratio	%	97.0	96.5	98.0		

NATA
WORLD RECOGNISED
ACCREDITATION

NATA Accredited Laboratory No. 20172

Ref: 1120 0414-1 (SI03)

AS1289 5.8.1, 5.7.1, 2.1.1, 1.1

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Approved Signatory:

Date:

Sampling Method:

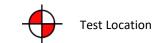
David Burns 5/10/2022

AS 1289 1.2.1 6.4(b)

Notes:

Test Method







PROJECT:	CLIENT:	DATE:	
Wallara Waters Estate Stage 16 (Level 1)	Bild Group	1/07/2022	4
LOCATION:	PROJECT No:		
Wallan	1120 0414-1 (SI03)	SITE PLAN SKETCH—NOT TO SCALE	
	Wallara Waters Estate Stage 16 (Level 1) LOCATION:	Wallara Waters Estate Stage 16 (Level 1) Bild Group PROJECT No:	Wallara Waters Estate Stage 16 (Level 1) Bild Group 1/07/2022 LOCATION: PROJECT No:





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Client:		Bild Group				Job No:	BDG2835
Project:		Wallara Waters	Estate Stage 1	6 (Level 1)		Report:	4
Location:		Wallan					
	ı						1
Sample No		10	11	12			
Date Tested		4/07/2022	4/07/2022	4/07/2022			
Time Tested		PM	PM	PM			
Test Location		Refer	Refer	Refer			
		to	to	to			
		Plan	Plan	Plan			
Level/Layer		1	1	1			
Layer Thickness	mm	200	200	200			
Test Depth	mm	175	175	175			
Field Wet Density	t/m³	1.90	1.91	1.91			
Field Moisture Content	%	21.1	20.0	20.1			
Material:		Site Derived Clay	Site Derived Clay	Site Derived Clay			
							•
Oversize Material	WET, %	11.0	7.8	7.0			
Sieve Size	mm	19	19	19			
Peak Converted Wet Density	t/m³	1.94	1.97	1.92			
Optimum Moisture Content	%	23	22	20			
							_
Moisture Ratio	%	92	91	100.5			
Moisture Variation	%	-2.0	-2.0	0.0			
from OMC		Drier	Drier	OMC			
Density Ratio	%	97.5	96.5	98.0			
Specification:	95% STD				Test Selection:		N/A
Notes:	Ref : 1120	0414-1 (SI04)					
Test Method	AS1289 5.8	3.1, 5.7.1, 2.1.1, 1.1	l		Sampling Method:	AS 1289	9 1.2.1 6.4(b)



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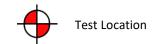
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David Burns 28/10/2022







PROJECT: Wallara Waters Estate Stage 16 (Level 1)		DATE: 04/07/2022	
LOCATION:	PROJECT No: 1120 0414-1 (SI04)	SITE PLAN SKETCH—NOT TO SCALE	•
wanan	1120 0414-1 (3104)		





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Client:		Bild Group				Job No:	BDG2835
Project:		Wallara Waters	Estate Stage 1	6 (Level 1)		Report:	5
Location:		Wallan					
	ľ			_	1		1
Sample No		13	14	15			
Date Tested		5/07/2022	5/07/2022	5/07/2022			
Time Tested		PM	PM	PM			
	r						•
Test Location		Refer	Refer	Refer			
		to	to	to			
		Plan	Plan	Plan			
Level/Layer		2	2	2			
Layer Thickness	mm	200	200	200			
Test Depth	mm	175	175	175			
Field Wet Density	t/m³	1.89	1.89	1.86			
Field Moisture Content	%	20.2	23.2	21.7			
Material:		Site Derived Clay	Site Derived Clay	Site Derived Clay			
					,		•
Oversize Material	WET, %	6.9	8.0	6.0			
Sieve Size	mm	19	19	19			
Peak Converted Wet Density	t/m³	1.91	1.98	1.94			
Optimum Moisture Content	%	22	25.5	24			
							•
Moisture Ratio	%	92	91	90			
Moisture Variation	%	-2.0	-2.0	-2.0			
from OMC		Drier	Drier	Drier			
Density Ratio	%	97.5	95.0	95.0			
Specification:	95% STD				Test Selection:		N/A
Notes:	Ref : 1120	0414-1 (SI05)					
Test Method	AS1289 5.8	8.1, 5.7.1, 2.1.1, 1.1	l		Sampling Method:	AS 128	9 1.2.1 6.4(b)



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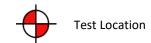
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Approved Signatory:

David Burns 5/10/2022







PROJECT:	CLIENT:	DATE:		
Wallara Waters Estate Stage 16 (Level 1)	Bild Group	5/07/2022		
LOCATION:	PROJECT No:			
Wallan	1120 0414-1 (SI05)	SITE PLAN SKETCH—NOT TO SCALE		
		I		





A & Y Associates Pty Ltd 5/16 Network Drive Truganina VIC 3029

PH: 0400 413 531 info@ayassociates.com.au

Client:		Bild Group				Job No:	BDG2835
Project:		Wallara Waters	Estate Stage 1	6 (Level 1)		Report:	6
Location:		Wallan					
Carrella Na		16	17	18		T	1
Sample No						+	+
Date Tested		6/07/2022	6/07/2022	6/07/2022			
Time Tested		PM	PM	PM			
Test Location		Refer	Refer	Refer		Ī	1
		to	to	to			
		Plan	Plan	Plan			
Level/Layer		1	1	1			
		200	200	200		+	
Layer Thickness	mm	475				1	
Test Depth	mm		175	175			
Field Wet Density	t/m³		1.90	1.86		<u> </u>	
Field Moisture Content	%	22.3	24.5	20.7			
Material:		Site Derived Clay	Site Derived Clay	Site Derived Clay			
Oversize Material	WET, %	3.9	4.8	5.2			
Sieve Size	mm	19	19	19			
Peak Converted Wet Density	t/m³	2.02	1.97	1.94			
Optimum Moisture Content	%	24.5	26.5	22.5			
Moisture Ratio	%	91	92.5	92			
Moisture Variation	%		-2.0	-2.0			
from OMC		Drier	Drier	Drier			
Density Ratio	%	95.0	95.5	95.0			
Specification:	95% STD				Test Selection	:	N/A

Notes: Ref: 1120 0414-1 (SI06)

Test Method AS1289 5.8.1, 5.7.1, 2.1.1, 1.1 Sampling Method: AS 1289 1.2.1 6.4(b)

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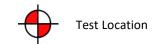
Approved Signatory:

David Burns

Date:

5/10/2022







	PROJECT:	CLIENT:	DATE:	
	Wallara Waters Estate Stage 16 (Level 1)	Bild Group	6/07/2022	
	LOCATION:	PROJECT No:		
	Wallan	1120 0414-1 (SI06)	SITE PLAN SKETCH—NOT TO SCALE	
				1





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info@ayassociates.com.au

Client:		Bild Group				Job No:	BDG2835
Project:		Wallara Waters	Estate Stage 1	6 (Level 1)		Report:	7
Location:		Wallan					
Sample No		19	20	21			
Date Tested		7/07/2022	7/07/2022	7/07/2022			
Time Tested		PM	PM	PM			
	Ī					_	
Test Location		Refer	Refer	Refer			
		to	to	to			
		Plan	Plan	Plan			
Level/Layer		1	1	1			
Layer Thickness	mm	200	200	200			
Test Depth	mm	175	175	175			
Field Wet Density	t/m³	2.04	2.01	2.00			
Field Moisture Content	%	19.5	20.1	22.3			
Material:		Site Derived Clay	Site Derived Clay	Site Derived Clay			
Oversize Makerial	WET 0/	8.0	8.0	10.0		<u> </u>	T
Oversize Material	WET, %	19	19	19			
Sieve Size	mm t/m³	2.14	2.10	2.10			
Peak Converted Wet Density	%	19.5	20.5	22.5			
Optimum Moisture Content	90	19.5	20.3	22.3		l	
Moisture Ratio	%	100	98	99			
Moisture Variation	%	0.0	0.0	0.0			
from OMC		OMC	OMC	OMC			
Density Ratio	%	95.0	95.5	95.0			
Specification:	95% STD				Test Selection	:	N/A
Notes:	Ref : 1120	0414-1 (SI07)					

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AS1289 5.8.1, 5.7.1, 2.1.1, 1.1

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Approved Signatory:

Sampling Method:

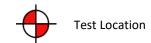
David Burns 5/10/2022

AS 1289 1.2.1 6.4(b)

Date:

Test Method







		1	
PROJECT:	CLIENT:	DATE:	
Wallara Waters Estate Stage 16 (Level 1)	Bild Group	07/07/2022	
LOCATION:	PROJECT No:		•
Wallan	1120 0414-1 (SI07)	SITE PLAN SKETCH—NOT TO SCALE	





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Client:		Bild Group				Job No:	BDG2835
Project:		Wallara Waters	Estate Stage 1	6 (Level 1)		Report:	8
Location:		Wallan					
Sample No		22	23	24			
Date Tested		13/07/2022	13/07/2022	13/07/2022			
Time Tested		PM	PM	PM			
							·
Test Location		Refer	Refer	Refer			
		to	to	to			
		Plan	Plan	Plan			
Level/Layer		1	1	1			
Layer Thickness	mm	200	200	200			
Test Depth	mm	175	175	175			
Field Wet Density	t/m³	1.99	1.95	1.96			
Field Moisture Content	%	19.0	22.5	23.2			
Material:		Site Derived Clay	Site Derived Clay	Site Derived Clay			
	'						
Oversize Material	WET, %	12.0	12.0	8.9			
Sieve Size	mm	19	19	19			
Peak Converted Wet Density	t/m³	2.08	2.04	2.05			
Optimum Moisture Content	%	19	23	23.5			
Moisture Ratio	%	100	98	98.5			
Moisture Variation	%	0.0	-0.5	-0.5			1
from OMC	,0	OMC	Drier	Drier			
Density Ratio	%	95.5	95.0	95.5			
	'						•
Specification:	95% STD				Test Selection:	ı	N/A
Notes:	Ref : 1120	0414-1 (SI08)					
Test Method	AS1289 5.	8.1, 5.7.1, 2.1.1, 1.1	l .		Sampling Method:	AS 1289	1.2.1 6.4(b)
						\bigcirc	

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Approved Signatory:

Date:

David Burns 5/10/2022







PROJECT:	CHENT.	DATE.	
PROJECT:	CLIENT:	DATE:	
Wallara Waters Estate Stage 16 (Level 1)	Bild Group	13/07/2022	
wanara waters Estate Stage 10 (Level 1)	Bild Group	13/0//2022	
LOCATION	I DDO LECT N		
LOCATION:	PROJECT No:		
Wallan	1120 0414-1 (SI08)	SITE PLAN SKETCH—NOT TO SCALE	
vvaliali	1120 0414-1 (3100)		





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Client:		Bild Group				Job No:	BDG2835
Project:		Wallara Waters	Estate Stage 1	6 (Level 1)		Report:	9
Location:		Wallan					
	ı				ı		1
Sample No		25	26	27			
Date Tested		16/07/2022	16/07/2022	16/07/2022			
Time Tested		PM	PM	PM			
	ı						T
Test Location		Refer	Refer	Refer			
		to	to	to			
		Plan	Plan	Plan			
Level/Layer		2	2	2			
Layer Thickness	mm	200	200	200			
Test Depth	mm	175	175	175			
Field Wet Density	t/m³	1.95	1.98	1.96			
Field Moisture Content	%	22.0	20.1	18.5			
Material:		Site Derived Clay	Site Derived Clay	Site Derived Clay			
Oversize Material WE	T, %	9.9	8.9	11.0			
Sieve Size	mm	19	19	19			
Peak Converted Wet Density	t/m ³	2.04	2.02	2.03			
Optimum Moisture Content	%	24.5	20.5	20.5			
	ı						•
Moisture Ratio	%	90	98	90.5			
Moisture Variation	%	-2.0	-0.5	-1.5			
from OMC		Drier	Drier	Drier			
Density Ratio	%	95.0	97.0	95.0			
Specification: 95%	6 STD				Test Selection:		N/A
Notes: Ref	: 1120	0414-1 (SI09)					
Test Method AS1	289 5.8	3.1, 5.7.1, 2.1.1, 1.1			Sampling Method:	AS 1289	1.2.1 6.4(b)

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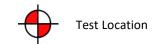
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Approved Signatory:

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PROJECT:	CLIENT:	DATE:	
Wallara Waters Estate Stage 16 (Level 1)	Bild Group	16/07/2022	
LOCATION: Wallan	PROJECT No: 1120 0414-1 (SI09)	SITE PLAN SKETCH—NOT TO SCALE	•





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Client:		Bild Group				Job No:	BDG2835
Project:		Wallara Waters	Estate Stage 1	6 (Level 1)		Report:	10
Location:		Wallan					
					<u> </u>		
Sample No		28	29	30			
Date Tested		23/07/2022	23/07/2022	23/07/2022			
Time Tested		PM	PM	PM			
	ı						
Test Location		Refer	Refer	Refer			
		to	to	to			
		Plan	Plan	Plan			
Level/Layer		2	2	2			
Layer Thickness	mm	200	200	200			
Test Depth	mm	175	175	175			
Field Wet Density	t/m³	1.87	1.91	1.98			
Field Moisture Content	%	20.4	21.1	18.5			
Material:		Site Derived Clay	Site Derived Clay	Site Derived Clay			
Oversize Material	WET, %	6.0	8.0	8.0			
Sieve Size	mm	19	19	19			
Peak Converted Wet Density	t/m³	1.89	1.98	2.03			
Optimum Moisture Content	%	22.5	23.5	18			
	ı				1		_
Moisture Ratio	%	90.5	90	103			
Moisture Variation	%		-2.0	0.5			
from OMC		Drier	Drier	Wetter			
Density Ratio	%	98.0	95.0	96.5			
Specification:	95% STD				Test Selection:		N/A
Notes:	Ref : 1120	0414-1 (SI10)					
Test Method	AS1289 5.8	8.1, 5.7.1, 2.1.1, 1.1	L		Sampling Method:	AS 128	9 1.2.1 6.4(b)

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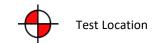
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PROJECT:	CLIENT:	DATE:		
Wallara Waters Estate Stage 16 (Level 1)	Bild Group	23/07/2022		
LOCATION:	PROJECT No:			
Wallan	1120 0414-1 (SI10)	SITE PLAN SKETCH—NOT TO SCALE		
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Client:		Bild Group				Job No:	BDG2835
Project:		Wallara Waters	Estate Stage 1	6 (Level 1)		Report:	11
Location:		Wallan					
	ı				I		
Sample No		31	32	33			
Date Tested		2/08/2022	2/08/2022	2/08/2022			
Time Tested		PM	PM	PM			
					T	T .	
Test Location		Refer	Refer	Refer			
		to	to	to			
		Plan	Plan	Plan			
Level/Layer		3	3	3			
Layer Thickness	mm	200	200	200			
Test Depth	mm	175	175	175			
Field Wet Density	t/m³	1.86	1.89	1.99			
Field Moisture Content	%	18.5	19.5	20.1			
Material:		Site Derived Clay	Site Derived Clay	Site Derived Clay			
					•		•
Oversize Material	WET, %	9.0	5.0	8.0			
Sieve Size	mm	19	19	19			
Peak Converted Wet Density	t/m³	1.94	1.97	2.02			
Optimum Moisture Content	%	20.5	20.5	21.5			
	ı				ı		_
Moisture Ratio	%	90	95	93.5			
Moisture Variation	%		-1.0	-1.5			
from OMC	<u>.</u>	Drier	Drier	Drier			
Density Ratio	%	95.0	96.0	97.5			
Specification:	95% STD				Test Selection:		N/A
Notes:	Ref: 1120	0414-1 (SI11)					
Test Method	AS1289 5.8	3.1, 5.7.1, 2.1.1, 1.1	L		Sampling Method:	AS 128	9 1.2.1 6.4(b)

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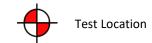
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David Burns 11/10/2022







PROJECT:	CLIENT:	DATE:	
Wallara Waters Estate Stage 16 (Level 1)	Bild Group	02/08/2022	1
			1
LOCATION:	PROJECT No:		
Wallan	1120 0414-1 (SI11)	SITE PLAN SKETCH—NOT TO SCALE	
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