

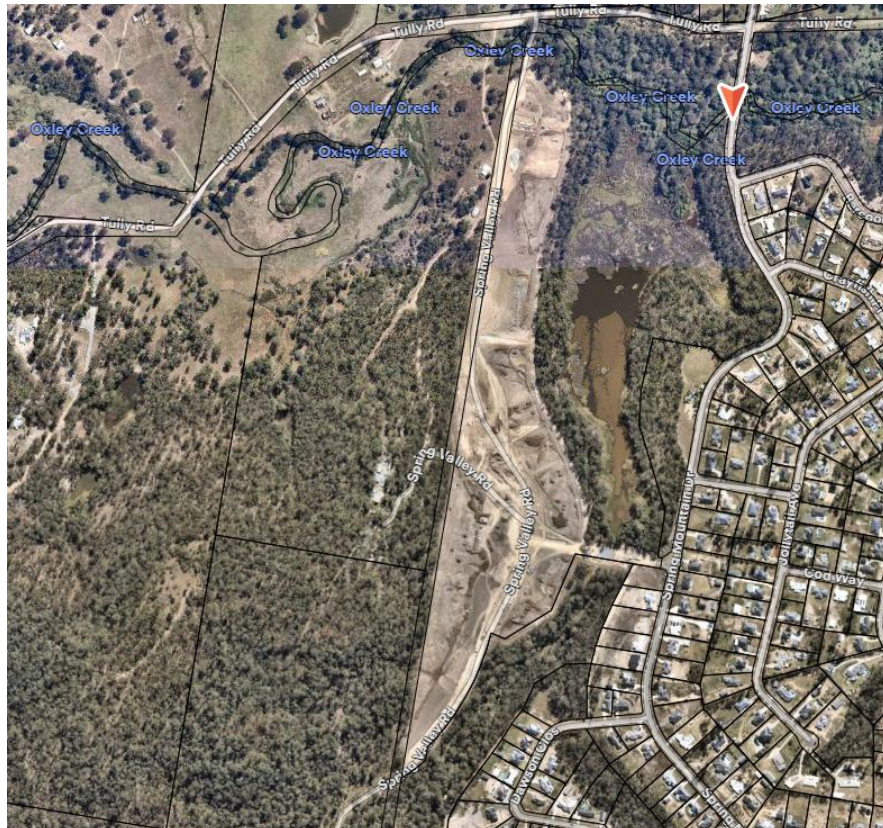


22nd October 2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C

REPORT ON LEVEL 1

EARTHWORKS INSPECTION AND TESTING



PROJECT: Spring Mountain Acreage Estate Stage 18C

CONTRACTOR: SEE Civil Pty Ltd

TABLE OF CONTENTS

1 INTRODUCTION

1.0 General

1.1 Site Description

1.2 Site Geology

2 WORKS AND SPECIFICATIONS

3 FILL FOUNDATION

4 COMPLIANCE TESTING

5 CONCLUSION

6 LIMITATIONS

Appendix A – Earthworks Drawings

Appendix B – Test Locations

Appendix C – Test Reports

Appendix D – Individual Lot Certificates

1 INTRODUCTION

1.0 GENERAL

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with Clause 8.2 of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

The fill placed on the development between 21/06/2024 and 17/10/2024 as detailed in this report is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

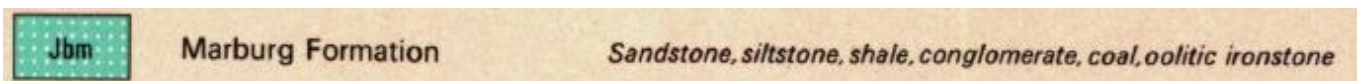
1.1 SITE DESCRIPTION

The site is located off, Spring Mountain Drive in New Beith, Queensland as shown below.

LOCALITY PLAN



1.2 SITE GEOLOGY



Source: Moreton Geology Map

2 WORKS AND SPECIFICATIONS

The earthworks generally comprised of Level 1 filling placed across the site. Filling was conducted by using site won materials. The fill materials were placed in layers not exceeding 200mm and moisture conditioned. Compaction equipment was then utilised to compact the fill until the required density specifications were achieved.

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% (standard compaction).

3 FILL FOUNDATION

The stripped surfaces of proposed fill areas were inspected, and proof rolled prior to placement of fill. Generally, the proof rolling was carried out with the equipment used to compact the fill and water truck. Compliance of the fill foundation and approval to commence filling was on the basis of:

- Adequate removal of topsoil and organics
- Soundness (minimum deflection) under proof rolling

4 COMPLIANCE TESTING

Test locations were randomly selected by the Geotechnical Testing Authority (GTA) Australian Soil and Concrete 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 the specifications. The table below summarises the test results. The test locations were not professionally surveyed and should be considered approximate.

All field density tests carried out on the structural fill meet the minimum specification requirements of 95% Standard Compaction on allotments (AS 1289 5.8.1, 5.7.1 & 2.1.1).

SUMMARY OF FIELD DENSITY TEST RESULTS

Test No	Test Date	Test Location		Test Level	Density Ratio %
110634	25/06/2024	E: 491782.420	N: 6930013.536	RL: 77.559	95.0
110635	25/06/2024	E: 491758.209	N: 6930001.807	RL: 79.313	95.0
110636	25/06/2024	E: 491764.951	N: 6929986.292	RL: 77.784	96.0
110637	26/06/2024	E: 497606.474	N: 6929710.577	RL: 72.679	98.0
110638	26/06/2024	E: 491573.873	N: 6929671.744	RL: 72.846	97.0
110639	26/06/2024	E: 491555.558	N: 6929652.883	RL: 73.171	99.5
110640	26/06/2024	E: 491542.743	N: 6929629.135	RL: 73.468	95.0
110641	26/06/2024	E: 491539.648	N: 6929593.108	RL: 73.659	100.5
110921	1/07/2024	E: 491735.734	N: 6930195.174	RL: 78.089	96.0
110922	1/07/2024	E: 491745.987	N: 6930209.314	RL: 76.156	95.5
110923	1/07/2024	E: 491751.653	N: 6930311.467	RL: 75.085	100.5
110924	1/07/2024	E: 491700.576	N: 6930267.901	RL: 78.797	96.0
110925	1/07/2024	E: 491710.058	N: 6930217.451	RL: 77.658	96.0
111032	4/07/2024	E: 491685.868	N: 6930265.311	RL: 80.879	103.0
111033	4/07/2024	E: 491716.408	N: 6930211.821	RL: 79.067	101.5
111034	4/07/2024	E: 491687.356	N: 6930320.141	RL: 79.778	102.0

111035	4/07/2024	E: 491716.264	N: 6930322.291	RL: 79.821	103.0
111036	4/07/2024	E: 491867.241	N: 6930121.351	RL: 75.894	101.0
111387	8/07/2024	E: 491727.436	N: 693019.869	RL: 79.837	99.0
111388	8/07/2024	E: 491927.386	N: 693023.278	RL: 78.766	99.0
111389	8/07/2024	E: 491709.071	N: 693032.756	RL: 76.947	98.0
111390	8/07/2024	E: 490233.476	N: 683213.865	RL: 77.764	97.5
111391	8/07/2024	E: 489736.128	N: 687113.918	RL: 78.865	97.5
111849	15/07/2024	E: 491683.615	N: 6930617.263	RL: 82.814	99.5
111850	15/07/2024	E: 491677.078	N: 6930576.989	RL: 83.350	101.0
111851	15/07/2024	E: 491670.709	N: 6930550.119	RL: 84.061	97.0
111852	15/07/2024	E: 491663.366	N: 6930507.931	RL: 84.914	100.0
112309	18/07/2024	E: 491664.281	N: 6930503.853	RL: 88.451	100.0
112310	18/07/2024	E: 491680.606	N: 6930511.383	RL: 84.185	97.0
112311	18/07/2024	E: 491677.751	N: 6930551.383	RL: 83.922	101.5
112312	18/07/2024	E: 491694.064	N: 6930603.380	RL: 82.268	95.0
113013	25/07/2024	E: 491960.7	N: 6930013.7	FSL	95.0
113014	25/07/2024	E: 491956.4	N: 6930018.5	FSL	96.5
113015	25/07/2024	E: 491963.4	N: 6930010.7	FSL	103.0
113016	25/07/2024	E: 491862.2	N: 6930024.9	FSL	102.5
113017	25/07/2024	E: 491882.1	N: 6930022.4	FSL	95.0
113018	25/07/2024	E: 491871.3	N: 6930015.1	FSL	100.5
113118	31/07/2024	E: 491660.04	N: 6930470.29	RL: 84.800	99.5
113119	31/07/2024	E: 491659.01	N: 6930361.90	RL: 84.690	100.5
113120	31/07/2024	E: 491688.84	N: 6930516.34	RL: 83.136	100.0
116015	5/09/2024	E: 491738.660	N: 6930317.721	RL: 74.424	96.5
116016	5/09/2024	E: 491731.769	N: 6930334.326	RL: 74.928	98.0
116017	5/09/2024	E: 491731.840	N: 6930345.672	RL: 75.104	97.5
116158	10/09/2024	E: 491576.38	N: 6930120.75	RL: 80.425	98.0
116159	10/09/2024	E: 491601.76	N: 6930135.51	RL: 78.53	97.0
116160	10/09/2024	E: 491701.64	N: 6930309.96	RL: 79.14	95.5
116500	11/09/2024	E: 491689.47	N: 6930320.75	RL: 81.44	98.5
116501	11/09/2024	E: 491701.77	N: 6930335.51	RL: 79.64	95.5
116502	11/09/2024	E: 491707.04	N: 6930315.94	RL: 79.17	98.0
116675	17/09/2024	E: 491680.42	N: 6930310.71	RL: 79.64	95.5
116676	17/09/2024	E: 491700.14	N: 6930118.51	RL: 79.14	95.5
116677	17/09/2024	E: 491708.01	N: 6930218.71	RL: 80.41	95.5
116678	17/09/2024	E: 491722.84	N: 6930345.11	RL: 79.82	97.5
116679	17/09/2024	E: 491881.71	N: 6930119.62	RL: 79.99	96.0
118267	3/10/2024	Spring valley RD	CH:620	Subgrade	100.5
118268	3/10/2024	Spring valley RD	CH: 730	Subgrade	100.5
118269	3/10/2024	Spring valley RD	CH: 1120	Subgrade	100.0
118270	3/10/2024	Spring valley RD	CH: 1220	Subgrade	100.5
118271	3/10/2024	Spring valley RD	CH: 1320	Subgrade	100.0
118272	3/10/2024	Longfin RD	CH: 260	Subgrade	100.5
118284	3/10/2024	E: 491898.9	N: 6930016.9	RL: 70.12	98.0

118285	3/10/2024	E: 491909.0	N: 6930015.7	RL: 69.83	100.0
118286	3/10/2024	E: 491917.0	N: 6930014.6	RL: 70.20	101.0
118287	3/10/2024	E: 491900.2	N: 6930027.2	RL: 69.82	98.5
118288	3/10/2024	E: 491907.5	N: 6930028.0	RL: 69.85	98.5
118289	3/10/2024	E: 491912.3	N: 6930032.1	RL: 70.31	98.0
119084	15/10/2024	E: 491886.3	N: 6930023.0	RL: 70.2	101.0
119085	15/10/2024	E: 491921.5	N: 6930014.2	RL: 70.0	101.0
119086	15/10/2024	E: 491941.2	N: 6930013.3	RL: 70.3	100.0
119087	15/10/2024	E: 491951.2	N: 6930013.9	RL: 70.4	99.0
119088	15/10/2024	E: 491963.2	N: 6930010.1	RL: 70.7	101.0
119089	15/10/2024	E: 491972.0	N: 6930009.6	RL: 70.8	101.0
119090	15/10/2024	E: 491979.2	N: 6930013.7	RL: 70.9	102.5
119091	15/10/2024	E: 491737.6	N: 6930188.2	RL: 79.0	101.0
119092	15/10/2024	E: 491724.7	N: 6930198.2	RL: 79.7	99.5
119093	15/10/2024	E: 491714.1	N: 6930209.9	RL: 80.1	99.5
119094	15/10/2024	E: 491705.5	N: 6930223.3	RL: 80.0	99.5
119095	15/10/2024	E: 491705.7	N: 6930239.7	RL: 80.2	99.0
119096	15/10/2024	E: 491705.1	N: 6930255.4	RL: 80.0	99.5
119097	15/10/2024	E: 491696.2	N: 6930268.3	RL: 81.1	99.5
119098	15/10/2024	E: 491684.2	N: 6930279.5	RL: 81.7	102.5
119099	16/10/2024	E: 491678.4	N: 6930290.1	RL: 83.1	99.0
119100	16/10/2024	E: 491670.4	N: 6930299.6	RL: 84.6	99.0
119101	16/10/2024	E: 491664.9	N: 6930315.3	RL: 85.2	100.5
119102	16/10/2024	E: 491660.4	N: 6930333.7	RL: 85.1	98.5
119103	16/10/2024	E: 491664.6	N: 6930349.7	RL: 84.3	103.0
119104	16/10/2024	E: 491674.8	N: 6930362.9	RL: 82.3	102.5
119105	16/10/2024	E: 491680.0	N: 6930381.1	RL: 80.6	102.5
119106	16/10/2024	E: 491674.6	N: 6930397.7	RL: 81.1	98.5
119107	16/10/2024	E: 491662.7	N: 6930412.6	RL: 82.1	102.5
119108	16/10/2024	E: 491660.1	N: 6930435.5	RL: 82.7	102.0
119109	16/10/2024	E: 491672.4	N: 6930451.1	RL: 82.0	98.0
119110	16/10/2024	E: 491671.2	N: 6930469.6	RL: 83.7	100.0
119111	17/10/2024	E: 491764.2	N: 6930206.6	RL: 76.2	98.0
119112	17/10/2024	E: 491776.4	N: 6930195.7	RL: 75.3	98.0
119113	17/10/2024	E: 491787.4	N: 6930203.9	RL: 74.6	98.5
119114	17/10/2024	E: 491776.4	N: 6930215.5	RL: 74.2	101.5

No. of Tests: 97

Mean: 99.0 %

5 CONCLUSION

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction, as far as we have been able to determine, the structural fill placed between the 21/06/2024 and 17/10/2024 is considered to have been carried out in general accordance with AS 3798-2007 *'Guidelines on earthworks for commercial and residential developments'*.

6 LIMITATIONS

Unless otherwise stated in this report, this report does not include: Backfill behind retaining structures, Backfill to service trenches, Road Pavements, Any Topsoil placed on the site, Slope Stability or Site Drainage.

The following should also be considered:

- a. This report is not a SITE CLASS REPORT as per AS2870-2011 and not a Geotechnical Site Investigation Report as per AS1726-2017.
- b. The shrink/swell movements which can occur in the residual silty clays due to weather related natural moisture changes by the reduction in surface evaporation subsequent to covering the site with buildings and pavements. As outlined in AS2870-2011 ("Residential Slabs and Footings – Constructions").
- c. It should be noted that there is a possibility that compaction levels may have increased during placement of subsequent layers especially when there have been fully laden earthmoving equipment frequently travel across the fill areas exerting high traffic loads.
- d. All compacted filling is subject to decompaction phenomenon.
- e. Compacted FILL usually experiences secondary settlement at a rate of about 1% x depth.

Please do not hesitate to contact me if you have any queries.

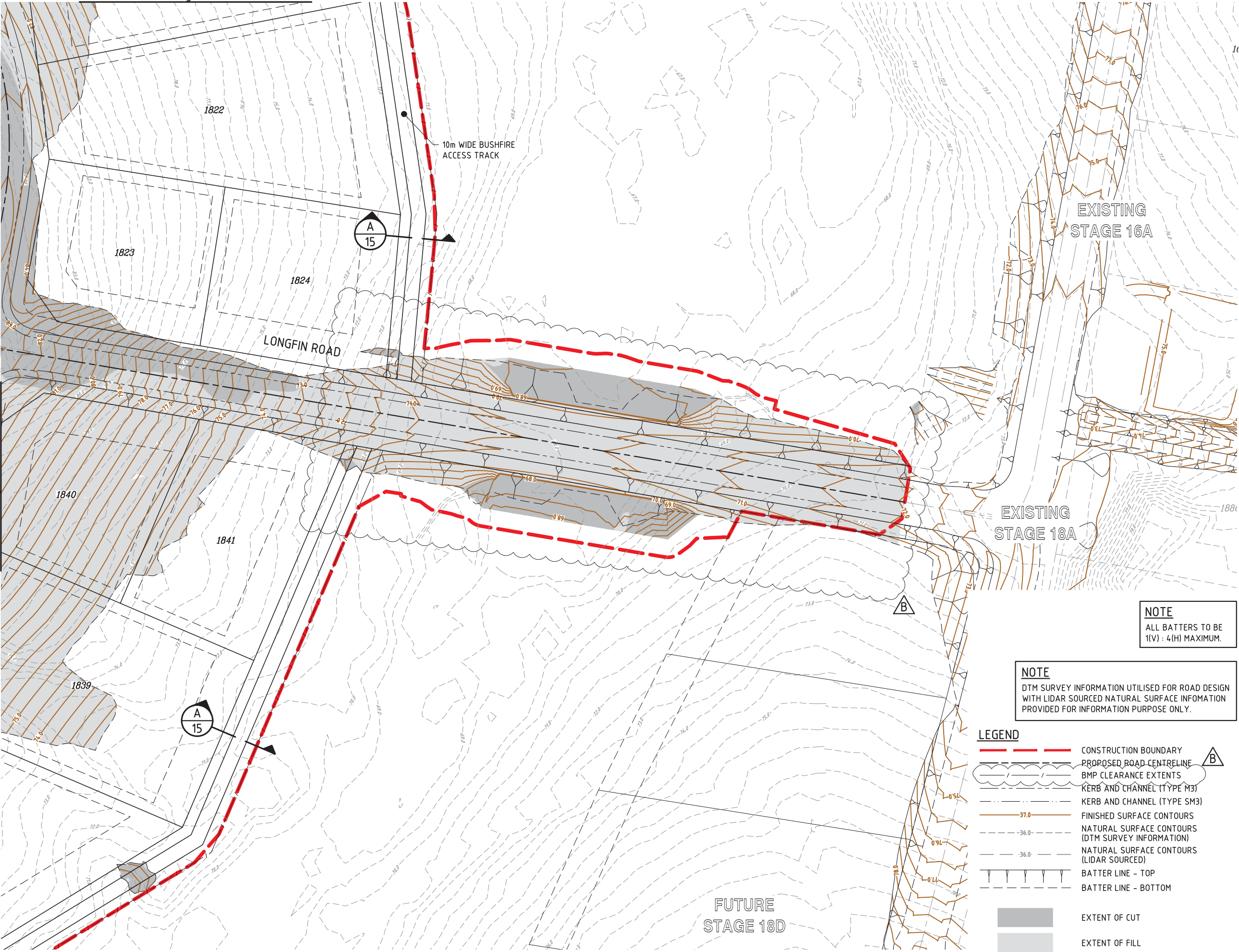
Yours faithfully

A handwritten signature in blue ink, appearing to read 'Jason Mckenna', with a stylized flourish extending to the right.

Jason Mckenna
Laboratory Manager
ASCT Brisbane South
jason.mckenna@asct.com.au

Appendix A

Earthworks Drawings



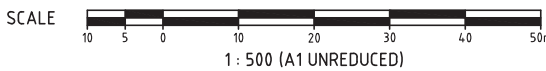
EARTHWORKS CONTOUR PLAN
SCALE 1:500

NOTE
DTM SURVEY INFORMATION UTILISED FOR ROAD DESIGN WITH LIDAR SOURCED NATURAL SURFACE INFORMATION PROVIDED FOR INFORMATION PURPOSE ONLY.

NOTE
ALL BATTERS TO BE 1(V) : 4(H) MAXIMUM.

LEGEND

- CONSTRUCTION BOUNDARY
- PROPOSED ROAD CENTRELINE
- BMP CLEARANCE EXTENTS
- KERB AND CHANNEL (TYPE M3)
- KERB AND CHANNEL (TYPE SM3)
- FINISHED SURFACE CONTOURS
- NATURAL SURFACE CONTOURS (DTM SURVEY INFORMATION)
- NATURAL SURFACE CONTOURS (LIDAR SOURCED)
- BATTER LINE - TOP
- BATTER LINE - BOTTOM
- EXTENT OF CUT
- EXTENT OF FILL



DO NOT SCALE THIS DRAWING IF IN DOUBT - ASK!

NORTH

LOCALITY PLAN

STAGE 18C

REVISIONS

No	Description	Date	By
A	FOR APPROVAL	14.12.2021	DES
B	RFI RESPONSE	23.03.2023	AA

Client

PEET

Project

SPRING MOUNTAIN ACREAGE ESTATE
STAGE 18C

Approved

M. Shaw

Digitally signed by Mark Shaw RPEQ 17544
Date: 2023.03.24 11:00:32+10'00'

Drawing Title

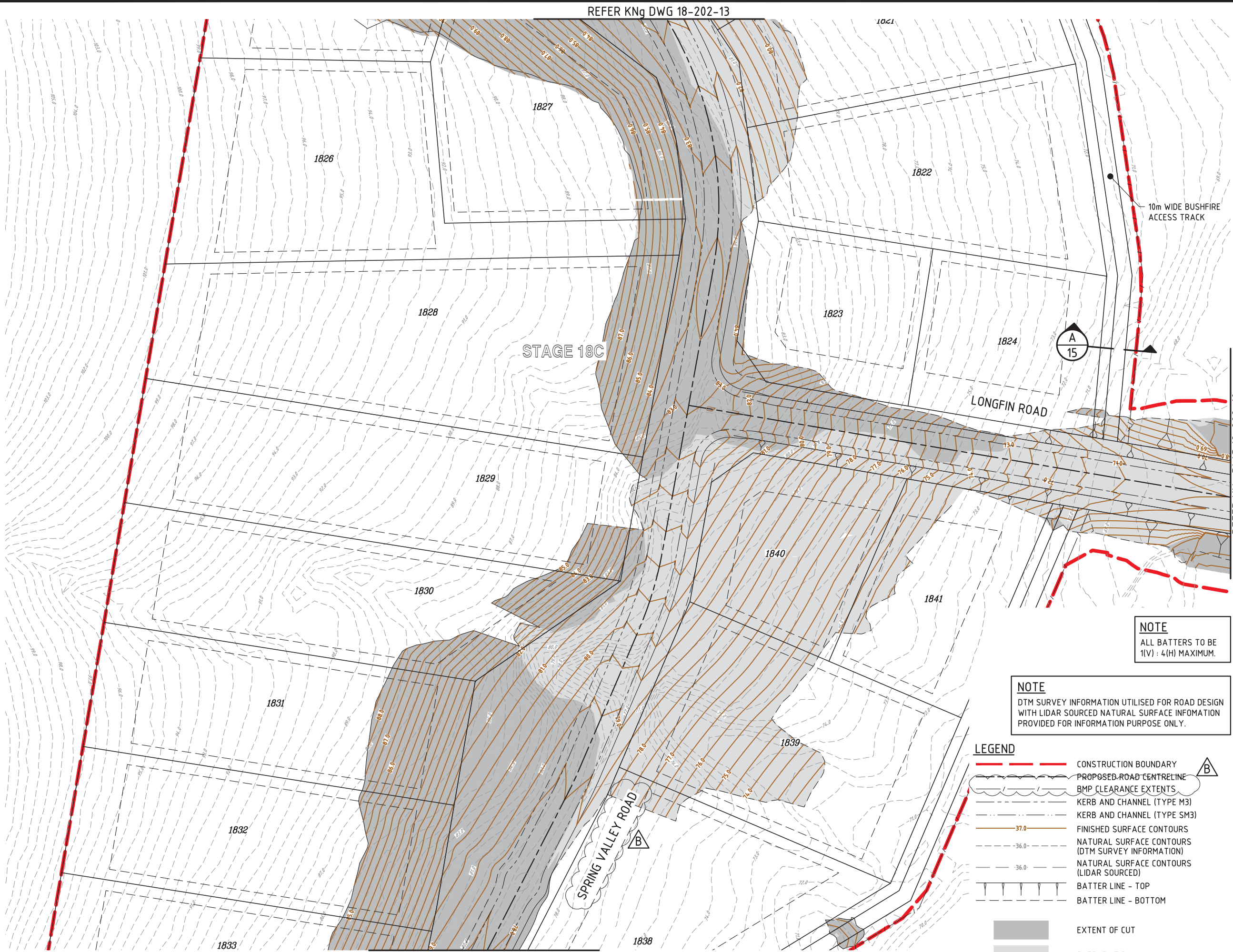
EARTHWORKS CONTOUR PLAN SHEET 1

Drawn	Designed	Checked	Date
DES	JB	GG	DEC 21

Scale	Drawing No	Sheet
AS SHOWN	18-202-10	10 of 78

A1	Revision
	B

\\kn-svr-01\projects\2018\18202 Spring Mountain Stage 18C\Engineering\Acd\18-202-10-15-EW-CONTOUR.dwg Plotted by: DS on: 23/03/2023 12:25 PM



REFER KNg DWG 18-202-13

REFER KNg DWG 18-202-10

REFER KNg DWG 18-202-12

EARTHWORKS CONTOUR PLAN
SCALE 1:500

LEGEND

- CONSTRUCTION BOUNDARY
- PROPOSED ROAD CENTRELINE
- BMP CLEARANCE EXTENTS
- KERB AND CHANNEL (TYPE M3)
- KERB AND CHANNEL (TYPE SM3)
- FINISHED SURFACE CONTOURS
- NATURAL SURFACE CONTOURS (DTM SURVEY INFORMATION)
- NATURAL SURFACE CONTOURS (LIDAR SOURCED)
- BATTER LINE - TOP
- BATTER LINE - BOTTOM
- EXTENT OF CUT
- EXTENT OF FILL

NOTE
DTM SURVEY INFORMATION UTILISED FOR ROAD DESIGN WITH LIDAR SOURCED NATURAL SURFACE INFORMATION PROVIDED FOR INFORMATION PURPOSE ONLY.

NOTE
ALL BATTERS TO BE 1(V) : 4(H) MAXIMUM.

SCALE
10 5 0 10 20 30 40 50m
1 : 500 (A1 UNREDUCED)

DO NOT SCALE THIS DRAWING
IF IN DOUBT - ASK!

NORTH

LOCALITY PLAN

STAGE 18C

10m WIDE BUSHFIRE ACCESS TRACK

REVISIONS

No	Description	Date	By
A	FOR APPROVAL	14.12.2021	DES
B	RFI RESPONSE	23.03.2023	AA

Client

PEET

Project

**SPRING MOUNTAIN
ACREAGE ESTATE
STAGE 18C**

Approved

Digitally signed by Mark Shaw RPEQ 17544
Date: 2023.03.24 11:00:34+10'00'

Drawing Title

**EARTHWORKS
CONTOUR PLAN
SHEET 2**

Drawn	Designed	Checked	Date
DES	JB	GG	DEC 21

Scale	Drawing No	Sheet
AS SHOWN	18-202-11	11 of 78

Revision	By
A1	B



REVISIONS

[illegible]

Client

PEET

Project

SPRING MOUNTAIN
ACREAGE ESTATE
STAGE 18C

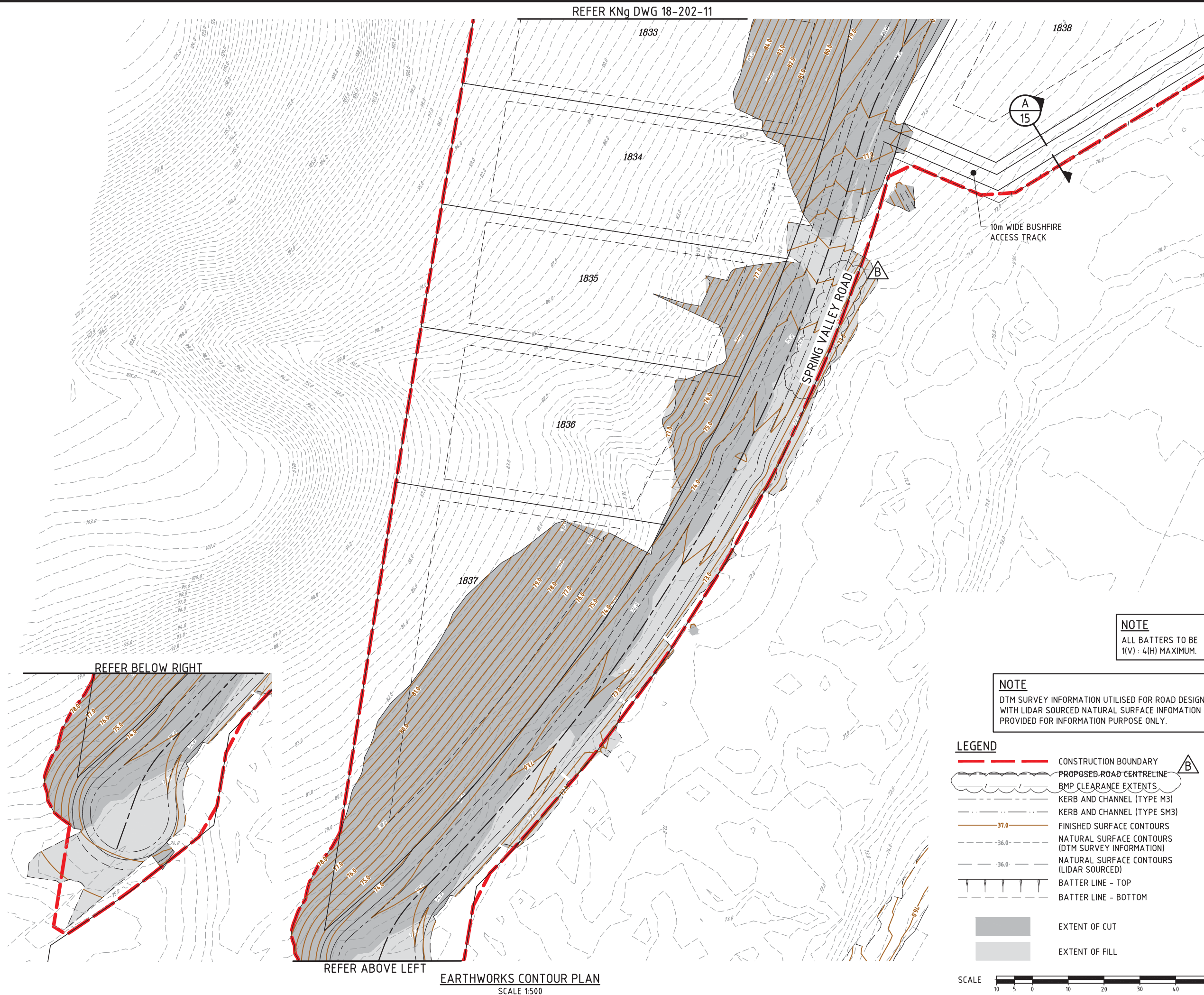


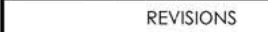
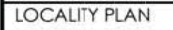
Approved  Digitally signed by Mark Shaw RPEQ
17544
Date: 2023.03.24
11:00:35+10'00'

Drawing Title

EARTHWORKS
CONTOUR PLAN
SHEET 3

Drawn DES	Designed JB	Checked GG	Date DEC 21
Scale AS SHOWN			Sheet 12 of 7
A1	Drawing No 18-202-12		Revision B





Client	
--------	--

Project	
---------	--



kn
group

ABN 35 112 53 611
L1, 62 Astor Tce
Spring Hill Q 4000
07 3017 1900
www.knggroup.com.au

Approved

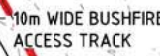
M. Shaw

Mark Andrew Shaw BEng
(Civil), MIEAust, RPEQ 17544
2024.02.02 09:52:38 +10'00'

Drawn DES	Designed JB	Checked GG	Date DEC 21
--------------	----------------	---------------	----------------

Scale	Sheet
AS SHOWN	13 of 78

A1	Drawing No 18-202-13	Revision C
----	-------------------------	---------------



NOTE
DTM SURVEY INFORMATION UTILISED FOR ROAD DESIGN
WITH LIDAR SOURCED NATURAL SURFACE INFORMATION
PROVIDED FOR INFORMATION PURPOSE ONLY.

CONSTRUCTION BOUNDARY

PROPOSED ROAD CENTRELINE

BMP CLEARANCE EXTENTS

KERB AND CHANNEL (TYPE M3)

KERB AND CHANNEL (TYPE SM3)

37.0
FINISHED SURFACE CONTOURS

36.9
NATURAL SURFACE CONTOURS
(DTM SURVEY INFORMATION)


36.9
NATURAL SURFACE CONTOURS
(LIDAR SOURCED)

BATTER LINE - TOP

BATTER LINE - BOTTOM

EXTENT OF CUT

EXTENT OF FILL

SCALE  1: 500 (A1 UNREDUCED)

REFER KNg DWG 18-202-11
EARTHWORKS CONTOUR PLAN
SCALE 1:500

LOCALITY PLAN

STAGE 18C

The map shows a street grid with a specific area highlighted in black and labeled 'STAGE 18C'. A north arrow is located in the bottom left corner.

[illegible]

PEET

SPRING MOUNTAIN
ACREAGE ESTATE
STAGE 18C



Approved  Digitally signed by
Mark Shaw RPEQ
17544
Date: 2023.03.24
11:00:38+10'00'

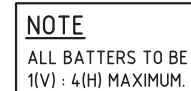
Drawing Title

EARTHWORKS
CONTOUR PLAN
SHEET 5

Drawn DES	Designed JB	Checked GG	Date DEC 2
--------------	----------------	---------------	---------------

Scale	Sheet
AS SHOWN	14 of

A1	Drawing No 18-202-14	Revision B
----	-------------------------	---------------




The diagram illustrates the vertical alignment and data layers for a road cross-section. It features a central road profile with various layers and boundaries. The layers are labeled on the right side of the diagram:

- CONSTRUCTION BOUNDARY**: Indicated by a thick red line at the top.
- PROPOSED ROAD CENTRELINE**: Indicated by a dashed line.
- BMP CLEARANCE EXTENTS**: Indicated by a cloud-like shape above the road profile.
- KERB AND CHANNEL (TYPE M3)**: Indicated by a dashed line.
- KERB AND CHANNEL (TYPE SM3)**: Indicated by a dashed line.
- FINISHED SURFACE CONTOURS**: Indicated by a solid line with the value **-37.0**.
- NATURAL SURFACE CONTOURS (DTM SURVEY INFORMATION)**: Indicated by a dashed line with the value **-36.0**.
- NATURAL SURFACE CONTOURS (LIDAR SOURCED)**: Indicated by a dashed line with the value **-36.0**.
- BATTER LINE - TOP**: Indicated by a solid line with vertical tick marks.
- BATTER LINE - BOTTOM**: Indicated by a solid line with vertical tick marks.

A small triangle with the letter 'B' is located in the top right corner of the diagram.

EXTENT OF CUT

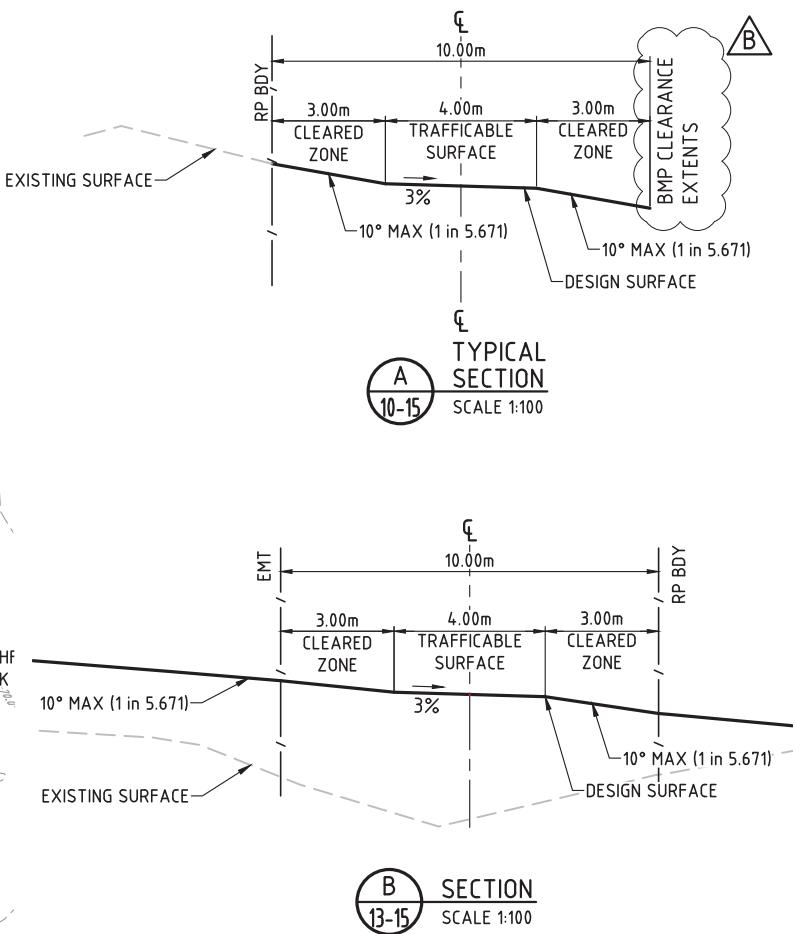
EXTENT OF FILL

SCALE  1 : 500 (A1 UNREDUCED)

\\kn-svr-01\projects\18018\1802 Spring Mountain Stage 18C\Engineering\Acd\18-202-10-15-EW-CONTOUR.dwg Plotted by: DS on: 23/03/2023 12:50 PM



REFER KNg DWG 18-202-14
EARTHWORKS CONTOUR PLAN
SCALE 1:500

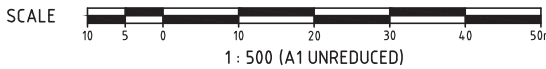


NOTE
ALL BATTERS TO BE
1(V) : 4(H) MAXIMUM.

NOTE
DTM SURVEY INFORMATION UTILISED FOR ROAD DESIGN
WITH LIDAR SOURCED NATURAL SURFACE INFORMATION
PROVIDED FOR INFORMATION PURPOSE ONLY.

NOTE
BUSHFIRE TRACKS ARE TO BE IN ACCORDANCE
WITH THE APPROVED BUSHFIRE HAZARD MANAGEMENT PLAN

- LEGEND**
- CONSTRUCTION BOUNDARY
 - PROPOSED ROAD CENTRELINE
 - BMP CLEARANCE EXTENTS
 - KERB AND CHANNEL (TYPE M3)
 - KERB AND CHANNEL (TYPE SM3)
 - FINISHED SURFACE CONTOURS
 - NATURAL SURFACE CONTOURS (DTM SURVEY INFORMATION)
 - NATURAL SURFACE CONTOURS (LIDAR SOURCED)
 - BATTER LINE - TOP
 - BATTER LINE - BOTTOM
 - EXTENT OF CUT
 - EXTENT OF FILL



DO NOT SCALE THIS DRAWING
IF IN DOUBT - ASK!

NORTH

LOCALITY PLAN

STAGE 18C

REVISIONS

No	Description	Date	By
A	FOR APPROVAL	14.12.2021	DES
B	RFI RESPONSE	23.03.2023	AA

Client

PEET

Project

**SPRING MOUNTAIN
ACREAGE ESTATE
STAGE 18C**

Approved

Digitally signed by Mark Shaw RPEQ 17544
Date: 2023.03.24 11:00:40+10'00'

Drawing Title

**EARTHWORKS
CONTOUR PLAN
SHEET 6**

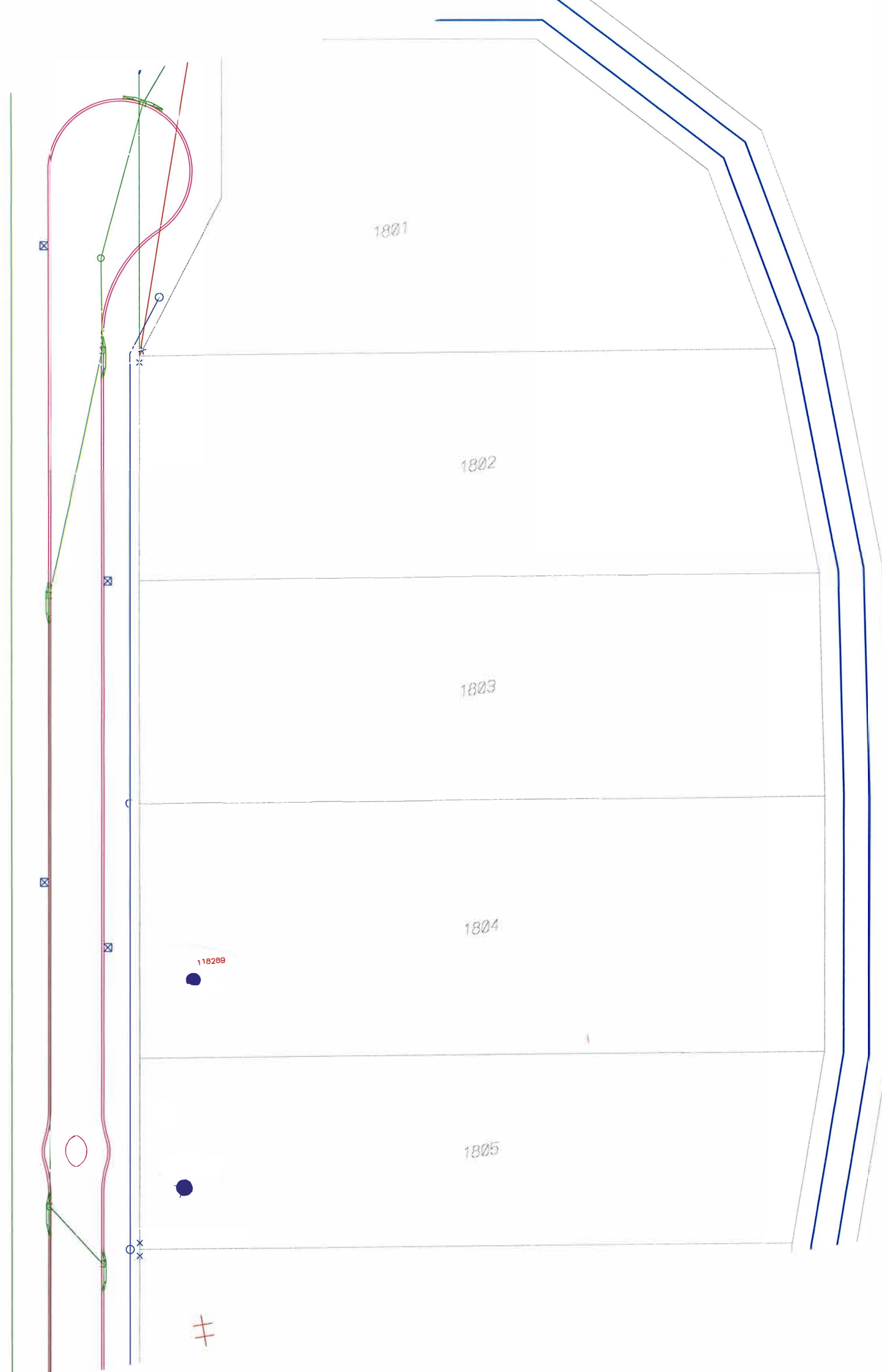
Drawn	Designed	Checked	Date
DES	JB	GG	DEC 21

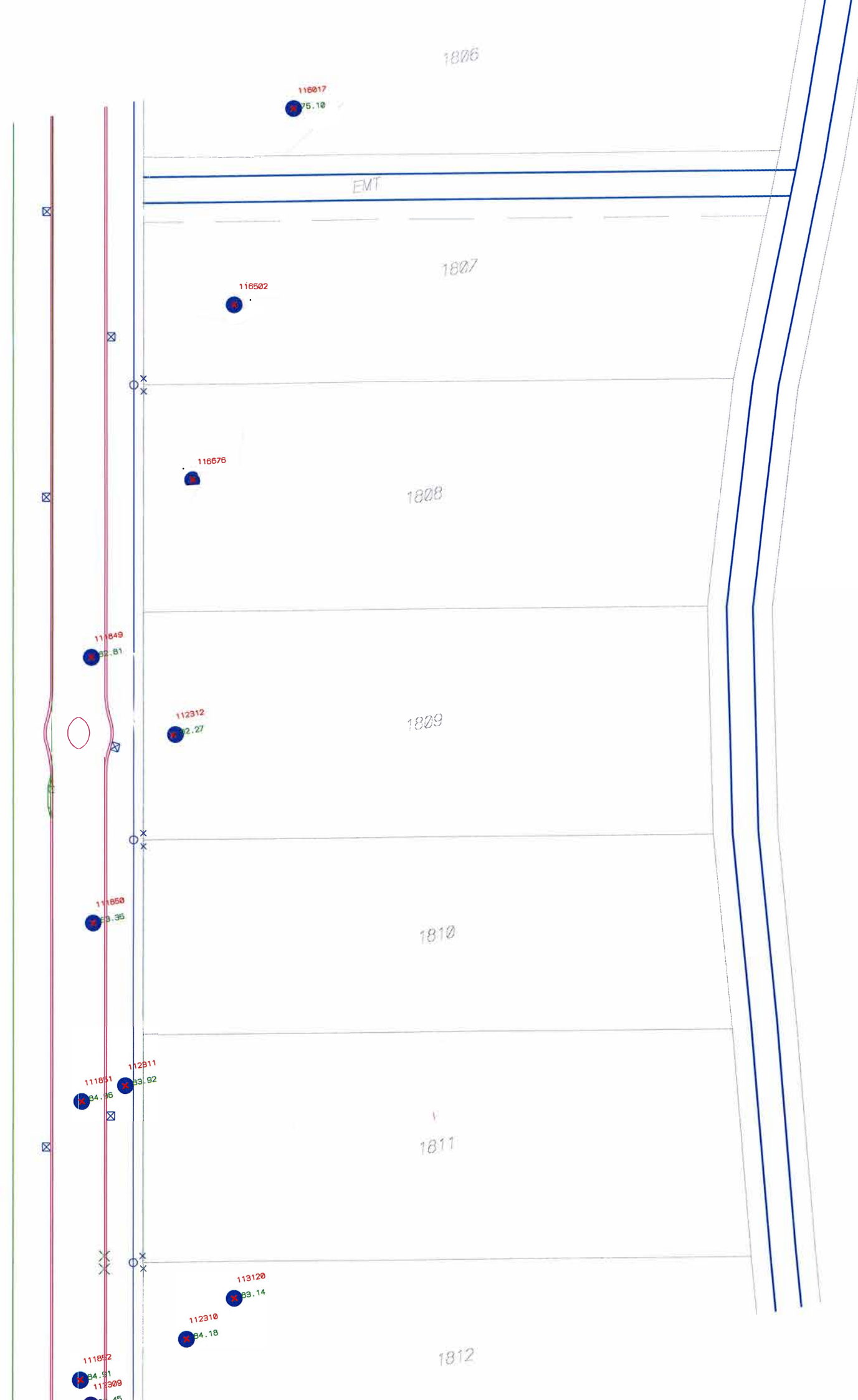
Scale	Sheet
AS SHOWN	15 of 78

A1	18-202-15	B
----	-----------	---

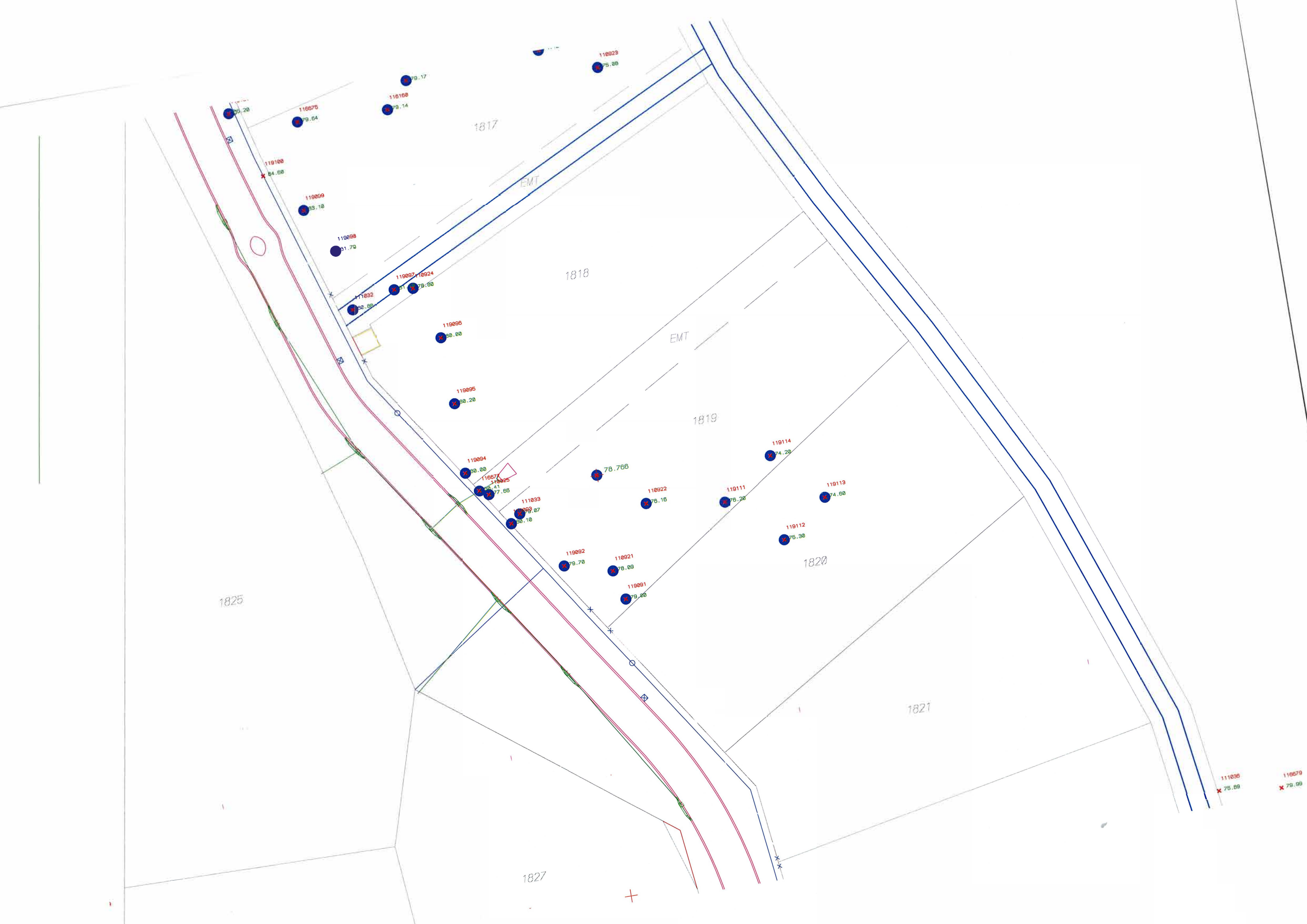
Appendix B

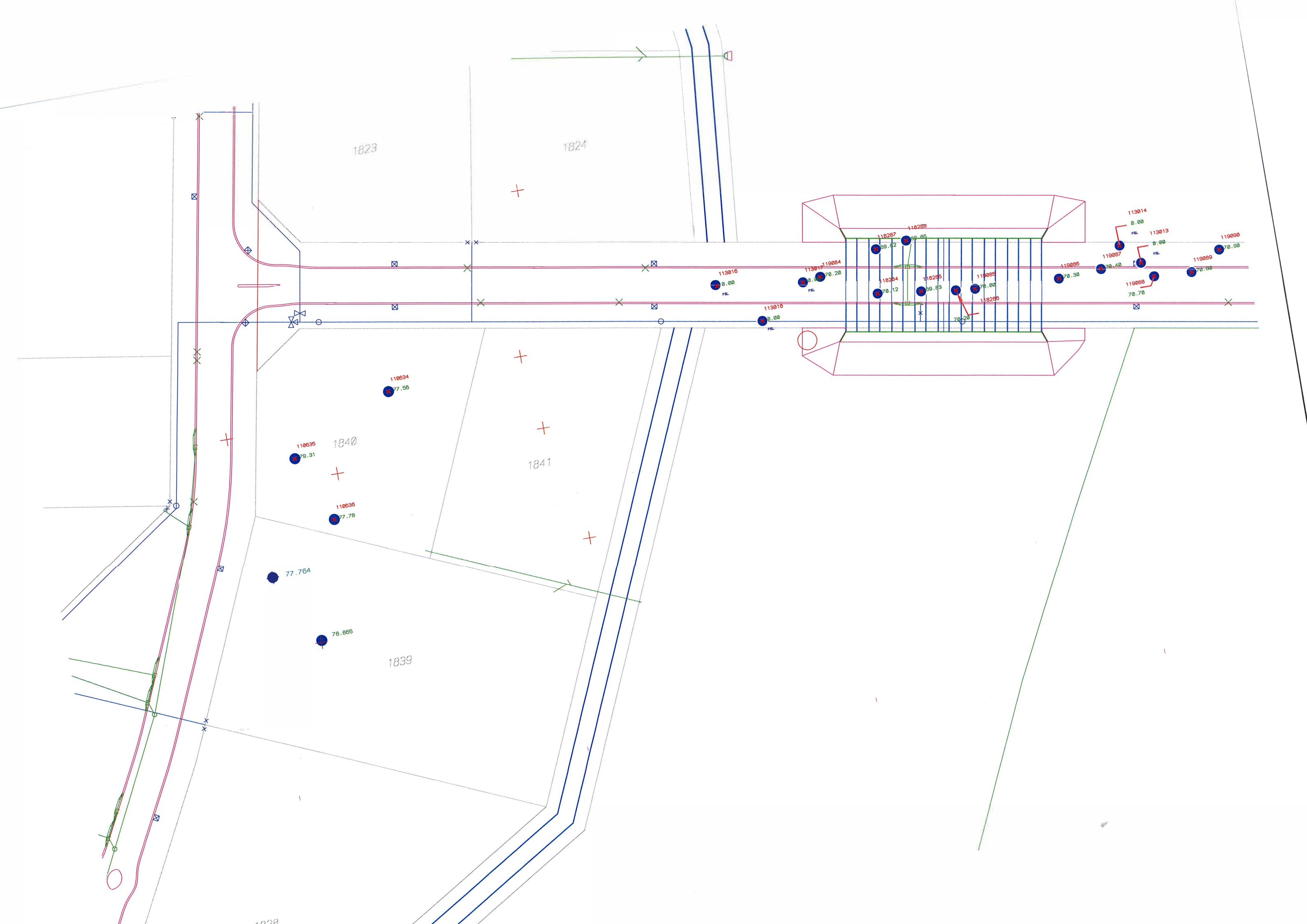
Test Locations











Appendix C

Test Reports

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125

Laboratory: 15 Elliott Court Hillcrest, QLD 4118

Telephone: (07) 3800 7314

E-Mail: brisbane.south@asct.com.au

Mobile: 0437 776 582

A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 1

Client: See Civil Pty Ltd
Client Address: 108 Siganto Drive, Helensvale QLD 4210
Project: Spring Mountain Acreage Estate - Stage 18C
Component: Level 1 Fiill
Lot Number:

Report No: 3
Report Date: 4/07/2024
Project No: 1937
Test Request:
ITP/PCP:

Sample Information & Location

Sample Number:	110634	110635	110636	-	-
Field Test Number:	1	2	3	-	-
Date - Field Tested:	25/06/2024	25/06/2024	25/06/2024	-	-
Time - Field Tested:	1350	1400	1410	-	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	-	-	-		
Location/Chainage/Easting:	(m) E: 491782.420	E: 491758.209	E: 491764.951	-	-
Position/Offset/Northing:	(m) N: 6930013.536	N: 6930001.807	N: 6929986.292	-	-
Level/Layer/R.L.	RL: 77.559	RL: 79.313	RL: 77.784	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³) 2.01	1.97	2.03	-	-
Field Dry Density:	(t/m ³) 1.77	1.74	1.79	-	-
Retained Oversize (Wet basis):	(%) 0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	-	-
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
Field Moisture Content:	(%) 13.5	13.5	13.5	-	-
Adjusted Lab OMC:	(%) 14.4	14.2	14.6	-	-
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density:	(t/m ³) 2.11	2.07	2.11	-	-
Adjusted Lab Max CWD:	(t/m ³) 2.11	2.07	2.11	-	-
Compactive Effort:	Standard	Standard	Standard	-	-

Relative Compaction & Moisture

Moisture Variation	(%) 1.0% Drier than OMC	1.0% Drier than OMC	1.0% Drier than OMC	-	-
Moisture Ratio	(%) 93.5	94.0	93.0	-	-
Density Ratio	(%) 95.0	95.0	96.0	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	95.1	3	95.47	0.55	0.739
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 01/07/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A.Lenkeit
Approved Signatory

WB101 - Rev 15, 13/05/2024

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125

Laboratory: 15 Elliott Court Hillcrest, QLD 4118

Telephone: (07) 3800 7314

E-Mail: brisbane.south@asct.com.au

Mobile: 0437 776 582

A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page:

1 of 1

Client:	See Civil Pty Ltd	Report No:	4
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	5/07/2024
Project:	Spring Mountain Acreage Estate - Stage 18C	Project No:	1937
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:		110637	110638	110639	110640	110641
Field Test Number:		1	2	3	4	5
Date - Field Tested:		26/06/2024	26/06/2024	26/06/2024	26/06/2024	26/06/2024
Time - Field Tested:		0950	1000	1010	1020	1025
Material Source / Type:		On Site - General Fill				
Remarks / Notes:						
Control Line:		-	-	-	-	-
Location/Chainage/Easting:	(m)	E: 497606.474	E: 491573.873	E: 491555.558	E: 491542.743	E: 491539.648
Position/Offset/Northing:	(m)	N: 6929710.577	N: 6929671.744	N: 6929652.883	N: 6929629.135	N: 6929593.108
Level/Layer/R.L.		RL: 72.679	RL: 72.846	RL: 73.171	RL: 73.468	RL: 73.659
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.02	2.01	2.12	1.97	2.14
Field Dry Density:	(t/m ³)	1.74	1.71	1.87	1.63	1.90
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	16.0	17.5	13.0	20.5	13.0
Adjusted Lab OMC:	(%)	17.1	18.6	14.3	21.3	13.7
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.06	2.07	2.12	2.07	2.12
Adjusted Lab Max CWD:	(t/m ³)	2.06	2.07	2.12	2.07	2.12
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	1.0% Dryer than OMC	1.0% Dryer than OMC	1.0% Dryer than OMC	1.0% Dryer than OMC	1.0% Dryer than OMC
Moisture Ratio	(%)	95.0	95.0	92.5	95.5	94.0
Density Ratio	(%)	98.0	97.0	99.5	95.0	100.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.8	5	98.10	2.19	0.572
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 01/07/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

B. Wild
B. Wild
Approved Signatory

WB101 - Rev 15, 13/05/2024

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125

Laboratory: 15 Elliott Court Hillcrest, QLD 4118

Telephone: (07) 3800 7314

E-Mail: brisbane.south@asct.com.au

Mobile: 0437 776 582

A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 1

Client: See Civil Pty Ltd
Client Address: 108 Siganto Drive, Helensvale QLD 4210
Project: Spring Mountain Acreage Estate - Stage 18C
Component: Level 1 Fill
Lot Number: -

Report No: 6
Report Date: 10/07/2024
Project No: 1937
Test Request: -
ITP/PCP:

Sample Information & Location

Sample Number:	110921	110922	110923	110924	110925
Field Test Number:	1	2	3	4	5
Date - Field Tested:	1/07/2024	1/07/2024	1/07/2024	1/07/2024	1/07/2024
Time - Field Tested:	1330	1340	1350	1400	1410
Material Source / Type:	On-site - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E: 491735.734	E: 491745.987	E: 491751.653	E: 491700.576	E: 491710.058
Position/Offset/Northing:	(m) N: 6930195.174	N: 6930209.314	N: 6930311.467	N: 6930267.901	N: 6930217.451
Level/Layer/R.L.	RL: 78.089	RL: 76.156	RL: 75.085	RL: 78.797	RL: 77.658
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	1.96	1.95	2.07	1.94	2.00
Field Dry Density:	(t/m ³)	1.71	1.73	1.87	1.76	1.81
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	14.0	12.5	11.0	10.5	10.5
Adjusted Lab OMC:	(%)	14.8	13.2	13.1	12.6	12.7
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.04	2.05	2.06	2.02	2.09
Adjusted Lab Max CWD:	(t/m ³)	2.04	2.05	2.06	2.02	2.09
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	0.5% Drier than OMC	0.5% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC
Moisture Ratio	(%)	95.5	96.5	83.5	84.0	83.0
Density Ratio	(%)	96.0	95.5	100.5	96.0	96.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	95.6	5	96.76	2.11	0.572
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 03/07/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A.Lenkeit
Approved Signatory

WB101 - Rev 15, 13/05/2024

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125

Laboratory: 15 Elliott Court Hillcrest, QLD 4118

Telephone: (07) 3800 7314

E-Mail: brisbane.south@asct.com.au

Mobile: 0437 776 582

A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 1

Client: See Civil Pty Ltd
Client Address: 108 Siganto Drive, Helensvale QLD 4210
Project: Spring Mountain Acreage Estate - Stage 18C
Component: Level 1 Fill
Lot Number: -

Report No: 7
Report Date: 10/07/2024
Project No: 1937
Test Request: -
ITP/PCP:

Sample Information & Location

Sample Number:	111032	111033	111034	111035	111036
Field Test Number:	1	2	3	4	5
Date - Field Tested:	54/07/2024	54/07/2024	54/07/2024	54/07/2024	54/07/2024
Time - Field Tested:	1330	1340	1350	1400	1410
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E: 491685.868	E: 491716.408	E: 491687.356	E: 491716.264	E: 491867.241
Position/Offset/Northing:	(m) N: 6930265.311	N: 6930211.821	N: 6930320.141	N: 6930322.291	N: 6930121.351
Level/Layer/R.L.	RL: 80.879	RL: 79.067	RL: 79.778	RL: 79.821	RL: 75.894
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.18	2.09	2.02	2.09	2.09
Field Dry Density:	(t/m ³)	2.00	1.91	1.80	1.89	1.90
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	9.0	9.0	12.0	10.5	10.0
Adjusted Lab OMC:	(%)	10.4	10.6	13.6	11.9	11.5
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.12	2.05	1.98	2.03	2.07
Adjusted Lab Max CWD:	(t/m ³)	2.12	2.05	1.98	2.03	2.07
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC
Moisture Ratio	(%)	85.0	85.0	90.0	87.0	87.5
Density Ratio	(%)	103.0	101.5	102.0	103.0	101.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	101.6	5	102.06	0.87	0.572
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 05/07/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit
Approved Signatory

WB101 - Rev 15, 13/05/2024

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125

Laboratory: 15 Elliott Court Hillcrest, QLD 4118

Telephone: (07) 3800 7314

E-Mail: brisbane.south@asct.com.au

Mobile: 0437 776 582

A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 1

Client: See Civil Pty Ltd

Client Address: 108 Siganto Drive, Helensvale QLD 4210

Project: Spring Mountain Acreage Estate - Stage 18C

Component: Level 1 Fill

Lot Number: -

Report No: 12

Report Date: 17/07/2024

Project No: 1937

Test Request: -

ITP/PCP:

Sample Information & Location

Sample Number:	111387	111388	111389	111390	111391
Field Test Number:	1	2	3	4	5
Date - Field Tested:	8/07/2024	8/07/2024	8/07/2024	8/07/2024	8/07/2024
Time - Field Tested:	1230	1240	1250	1300	1310
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E: 491727.436	E: 491927.386	E: 491709.071	E: 490233.476	E: 489736.128
Position/Offset/Northing:	(m) N: 693019.869	N: 693023.278	N: 693032.756	N: 683213.865	N: 687113.918
Level/Layer/R.L.	RL: 79.837	RL: 78.766	RL: 76.947	RL: 77.764	RL: 78.865
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.05	2.03	1.99	2.00	1.99
Field Dry Density:	(t/m ³)	1.83	1.84	1.81	1.80	1.80
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	12.5	10.5	10.0	11.0	10.5
Adjusted Lab OMC:	(%)	13.2	11.2	11.0	12.1	11.4
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.07	2.05	2.04	2.05	2.04
Adjusted Lab Max CWD:	(t/m ³)	2.07	2.05	2.04	2.05	2.04
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	1.0% Drier than OMC	1.0% Drier than OMC	1.0% Drier than OMC	1.0% Drier than OMC	1.0% Drier than OMC
Moisture Ratio	(%)	93.5	92.0	91.0	91.5	91.5
Density Ratio	(%)	99.0	99.0	98.0	97.5	97.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.8	5	98.18	0.73	0.572
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 15/07/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A.Lenkeit
Approved Signatory

WB101 - Rev 15, 13/05/2024

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125

Laboratory: 15 Elliott Court Hillcrest, QLD 4118

Telephone: (07) 3800 7314

E-Mail: brisbane.south@asct.com.au

Mobile: 0437 776 582

A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 1

Client: See Civil Pty Ltd

Client Address: 108 Siganto Drive, Helensvale QLD 4210

Project: Spring Mountain Acreage Estate - Stage 18C

Component: Level 1 Fill

Lot Number: -

Report No: 14

Report Date: 26/07/2024

Project No: 1937

Test Request: -

ITP/PCP:

Sample Information & Location

Sample Number:	111849	111850	111851	111852	-
Field Test Number:	1	2	3	4	-
Date - Field Tested:	15/07/2024	15/07/2024	15/07/2024	15/07/2024	-
Time - Field Tested:	1000	1010	1015	1020	-
Material Source / Type:	On-Site - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	
Location/Chainage/Easting:	(m) E: 491683.615	E: 491677.078	E: 491670.709	E: 491663.366	-
Position/Offset/Northing:	(m) N: 6930617.263	N: 6930576.989	N: 6930550.119	N: 6930507.931	-
Level/Layer/R.L.	RL: 82.814	RL: 83.350	RL: 84.061	RL: 84.914	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	-

Field & Laboratory Results

Field Wet Density:	(t/m ³) 2.13	2.18	2.08	2.11	-
Field Dry Density:	(t/m ³) 1.99	2.03	1.95	1.98	-
Retained Oversize (Wet basis):	(%) 0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	-
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-
Field Moisture Content:	(%) 7.0	7.0	7.0	6.5	-
Adjusted Lab OMC:	(%) 9.0	9.3	8.9	8.6	-
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-
Lab Max Converted Wet Density:	(t/m ³) 2.14	2.16	2.15	2.12	-
Adjusted Lab Max CWD:	(t/m ³) 2.14	2.16	2.15	2.12	-
Compactive Effort:	Standard	Standard	Standard	Standard	-

Relative Compaction & Moisture

Moisture Variation	(%) 2.0% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC	-
Moisture Ratio	(%) 77.0	78.0	77.0	77.5	-
Density Ratio	(%) 99.5	101.0	97.0	100.0	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.3	4	99.33	1.57	0.640
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 22/07/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A.Lenkeit
Approved Signatory

WB101 - Rev 15, 13/05/2024

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125

Laboratory: 15 Elliott Court Hillcrest, QLD 4118

Telephone: (07) 3800 7314

E-Mail: brisbane.south@asct.com.au

Mobile: 0437 776 582

A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 1

Client: See Civil Pty Ltd
Client Address: 108 Siganto Drive, Helensvale QLD 4210
Project: Spring Mountain Acreage Estate - Stage 18C
Component: Level 1 Fill
Lot Number: -

Report No: 18
Report Date: 31/07/2024
Project No: 1937
Test Request: -
ITP/PCP:

Sample Information & Location

Sample Number:	112309	112310	112311	112312	-
Field Test Number:	1	2	3	4	-
Date - Field Tested:	18/07/2024	18/07/2024	18/07/2024	18/07/2024	-
Time - Field Tested:	1230	1235	1240	1245	-
Material Source / Type:	On-Site - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	
Location/Chainage/Easting:	(m) E: 491664.281	E: 491680.606	E: 491677.751	E: 491694.064	-
Position/Offset/Northing:	(m) N: 6930503.853	N: 6930511.383	N: 6930551.383	N: 6930603.380	-
Level/Layer/R.L.	RL: 88.451	RL: 84.185	RL: 83.922	RL: 82.268	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.12	2.04	2.18	1.96	-
Field Dry Density:	(t/m ³)	1.97	1.79	2.05	1.74	-
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-
Field Moisture Content:	(%)	7.5	14.0	6.5	12.5	-
Adjusted Lab OMC:	(%)	9.4	16.3	8.5	14.7	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-
Lab Max Converted Wet Density:	(t/m ³)	2.12	2.11	2.15	2.06	-
Adjusted Lab Max CWD:	(t/m ³)	2.12	2.11	2.15	2.06	-
Compactive Effort:		Standard	Standard	Standard	Standard	-

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC	-
Moisture Ratio	(%)	79.0	87.0	76.5	85.5	-
Density Ratio	(%)	100.0	97.0	101.5	95.0	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.5	4	98.35	2.89	0.640
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 22/07/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit
Approved Signatory

WB101 - Rev 15, 13/05/2024

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
Laboratory: 15 Elliott Court Hillcrest, QLD 4118
Telephone: (07) 3800 7314
E-Mail: brisbane.south@asct.com.au
Mobile: 0437 776 582
A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 2

Client: See Civil Pty Ltd
Client Address: 108 Siganto Drive, Helensvale QLD 4210
Project: Spring Mountain Acreage Estate - Stage 18C
Component: Level 1 Fill
Lot Number: -

Report No: **38**
Report Date: 15/08/2024
Project No: 1937
Test Request: -
ITP/PCP:

Sample Information & Location

Sample Number:	113013	113014	113015	113016	113017
Field Test Number:	1	2	3	4	5
Date - Field Tested:	25/07/2024	25/07/2024	25/07/2024	25/07/2024	25/07/2024
Time - Field Tested:	13:00	13:05	13:10	-	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E: 491960.7	E: 491956.4	E: 491963.4	E: 491862.2	E: 491882.1
Position/Offset/Northing:	(m) N: 6930013.7	N: 6930018.5	N: 6930010.7	N: 6930024.9	N: 6930022.4
Level/Layer/R.L.	FSL	FSL	FSL	FSL	FSL
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Laboratory testing 09/08/2024

Field Wet Density:	(t/m ³)	1.88	1.93	2.06	2.06	1.81
Field Dry Density:	(t/m ³)	1.75	1.79	1.91	1.91	1.66
Retained Oversize (Wet basis):	(%)	1% on 19.0mm	2% on 19.0mm	2% on 19.0mm	2% on 19.0mm	2% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	7.5	7.7	7.7	7.6	9.2
Adjusted Lab OMC:	(%)	8.8	9.1	9.2	8.9	10.6
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	1.98	2.00	1.99	2.01	1.90
Adjusted Lab Max CWD:	(t/m ³)	1.98	2.00	2.00	2.01	1.91
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture



Moisture Variation	(%)	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC
Moisture Ratio	(%)	85.5	85.5	84.5	85.0	87.0
Density Ratio	(%)	95.0	96.5	103.0	102.5	95.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	95.7	6	98.76	3.67	0.828
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1-2001 (Prep), AS1289.5.4.1-2007 (Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1-2006 (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1-2007 (Nuclear Gauge, Direct Transmission), Q050-Jan 2024 (Selection of Test Site - Cl 8.1 Random Stratified), AS 1289.1.2.1, Cl 6.4(b) - (Disturbed Sampling), Q020-Jan 2024 (Characteristic Value of a Lot)

Remarks Regarding the Lot.

	Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.	
NATA Accreditation number: 19902	Approved By:	A. Lenkeit Approved Signatory
WB030 - Rev 18, 12/03/2024		

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125

Laboratory: 15 Elliott Court Hillcrest, QLD 4118

Telephone: (07) 3800 7314**E-Mail:** brisbane.south@asct.com.au**Mobile:** 0437 776 582**A.B.N.** 28 608 830 306**Compaction Control Test Report (Nuclear Gauge & Hilf)**

Page: 2 of 2

Client: See Civil Pty Ltd
Client Address: 108 Siganto Drive, Helensvale QLD 4210
Project: Spring Mountain Acreage Estate - Stage 18C
Component: Level 1 Fill
Lot Number: -

Report No: **38**
Report Date: 15/08/2024
Project No: 1937
Test Request: -
ITP/PCP:

Sample Information & Location

Sample Number:		113018	-	-	-	-
Field Test Number:		6	-	-	-	-
Date - Field Tested:		25/07/2024	-	-	-	-
Time - Field Tested:		-	-	-	-	-
Material Source / Type:		On Site - General Fill				
Remarks / Notes:						
Control Line:		-	-	-	-	-
Location/Chainage/Easting:	(m)	E: 491871.3	-	-	-	-
Position/Offset/Northing:	(m)	N: 6930015.1	-	-	-	-
Level/Layer/R.L.		FSL	-	-	-	-
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	-	-	-	-

Field & Laboratory Results

Laboratory testing 09/08/2024

Field Wet Density:	(t/m ³)	2.00	-	-	-	-
Field Dry Density:	(t/m ³)	1.86	-	-	-	-
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	-	-	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	-	-	-	-
Field Moisture Content:	(%)	7.6	-	-	-	-
Adjusted Lab OMC:	(%)	9.0	-	-	-	-
Fraction Tested:		Passing 19.0mm	-	-	-	-
Lab Max Converted Wet Density:	(t/m ³)	1.99	-	-	-	-
Adjusted Lab Max CWD:	(t/m ³)	1.99	-	-	-	-
Compactive Effort:		Standard	-	-	-	-

Relative Compaction & Moisture

Moisture Variation	(%)	1.5% Drier than OMC	-	-	-	-
Moisture Ratio	(%)	84.5	-	-	-	-
Density Ratio	(%)	100.5	-	-	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	95.7	6	98.76	3.67	0.828
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1-2001 (Prep), AS1289.5.4.1-2007 (Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1-2006 (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1-2007 (Nuclear Gauge, Direct Transmission), Q050-Jan 2024 (Selection of Test Site - Cl 8.1 Random Stratified), AS 1289.1.2.1, Cl 6.4(b) - (Disturbed Sampling), Q020-Jan 2024 (Characteristic Value of a Lot)

Remarks Regarding the Lot.

--



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

NATA Accreditation number: 19902

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125

Laboratory: 15 Elliott Court Hillcrest, QLD 4118

Telephone: (07) 3800 7314

E-Mail: brisbane.south@asct.com.au

Mobile: 0437 776 582

A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page:

1 of 1

Client:	See Civil Pty Ltd	Report No:	36
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	15/08/2024
Project:	Spring Mountain Acreage Estate - Stage 18C	Project No:	1937
Component:	Bulk Earthworks Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:	113118	113119	113120	-	-
Field Test Number:	1	2	3	-	-
Date - Field Tested:	30/07/2024	30/07/2024	30/07/2024	-	-
Time - Field Tested:	1000	1010	1020	-	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	-	-	-		
Location/Chainage/Easting:	(m) E: 491660.04	E: 491659.01	E: 491688.84	-	-
Position/Offset/Northing:	(m) N: 6930470.29	N: 6930361.90	N: 6930516.34	-	-
Level/Layer/R.L.	RL: 84.800	RL: 84.690	RL: 83.136	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.22	2.13	2.21	-	-
Field Dry Density:	(t/m ³)	2.07	1.97	2.06	-	-
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
Field Moisture Content:	(%)	7.5	8.0	7.5	-	-
Adjusted Lab OMC:	(%)	9.3	10.0	9.2	-	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density:	(t/m ³)	2.23	2.12	2.21	-	-
Adjusted Lab Max CWD:	(t/m ³)	2.23	2.12	2.21	-	-
Compactive Effort:		Standard	Standard	Standard	-	-

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Dryer than OMC	2.0% Dryer than OMC	2.0% Dryer than OMC	-	-
Moisture Ratio	(%)	79.5	78.5	79.5	-	-
Density Ratio	(%)	99.5	100.5	100.0	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	99.7	3	100.10	0.56	0.739
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 14/08/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

B. Wild
Approved Signatory

WB101 - Rev 15, 13/05/2024

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125

Laboratory: 15 Elliott Court Hillcrest, QLD 4118

Telephone: (07) 3800 7314

E-Mail: brisbane.south@asct.com.au

Mobile: 0437 776 582

A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 1

Client: See Civil Pty Ltd

Client Address: 108 Siganto Drive, Helensvale QLD 4210

Project: Spring Mountain Acreage Estate - Stage 18C

Component: Level 1 Fill

Lot Number: -

Report No: 52

Report Date: 12/09/2024

Project No: 1937

Test Request: -

ITP/PCP:

Sample Information & Location

Sample Number:	116015	116016	116017	-	-
Field Test Number:	1	2	3	-	-
Date - Field Tested:	5/09/2024	5/09/2024	5/09/2024	-	-
Time - Field Tested:	1005	1010	1015	-	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	-	-	-		
Location/Chainage/Easting:	(m) E: 491738.660	E: 491731.769	E: 491731.840	-	-
Position/Offset/Northing:	(m) N: 6930317.721	N: 6930334.326	N: 6930345.672	-	-
Level/Layer/R.L.	RL: 74.424	RL: 74.928	RL: 75.104	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³) 1.99	2.08	2.04	-	-
Field Dry Density:	(t/m ³) 1.80	1.91	1.88	-	-
Retained Oversize (Wet basis):	(%) 2% on 19.0mm	2% on 19.0mm	3% on 19.0mm	-	-
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
Field Moisture Content:	(%) 10.0	9.0	8.5	-	-
Adjusted Lab OMC:	(%) 11.3	10.3	10.0	-	-
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density:	(t/m ³) 2.05	2.11	2.08	-	-
Adjusted Lab Max CWD:	(t/m ³) 2.06	2.11	2.09	-	-
Compactive Effort:	Standard	Standard	Standard	-	-

Relative Compaction & Moisture

Moisture Variation	(%) 1.0% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	-	-
Moisture Ratio	(%) 89.5	86.0	85.5	-	-
Density Ratio	(%) 96.5	98.0	97.5	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.7	3	97.43	0.93	0.739
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 11/09/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A.Lenkeit
Approved Signatory

WB101 - Rev 15, 13/05/2024

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125

Laboratory: 15 Elliott Court Hillcrest, QLD 4118

Telephone: (07) 3800 7314

E-Mail: brisbane.south@asct.com.au

Mobile: 0437 776 582

A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 1

Client: See Civil Pty Ltd

Client Address: 108 Siganto Drive, Helensvale QLD 4210

Project: Spring Mountain Acreage Estate - Stage 18C

Component: Level 1 Fill

Lot Number: -

Report No: 53

Report Date: 19/09/2024

Project No: 1937

Test Request: -

ITP/PCP:

Sample Information & Location

Sample Number:	116158	116159	116160	-	-
Field Test Number:	1	2	3	-	-
Date - Field Tested:	10/09/2024	10/09/2024	10/09/2024	-	-
Time - Field Tested:	1035	1045	1055	-	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	-	-	-		
Location/Chainage/Easting:	(m) E: 491576.38	E: 491601.76	E: 491701.64	-	-
Position/Offset/Northing:	(m) N: 6930120.75	N: 6930135.51	N: 6930309.96	-	-
Level/Layer/R.L.	RL: 80.425	RL: 78.53	RL: 79.14	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³) 2.10	2.10	2.00	-	-
Field Dry Density:	(t/m ³) 1.88	1.89	1.80	-	-
Retained Oversize (Wet basis):	(%) 0% on 19.0mm	1% on 19.0mm	1% on 19.0mm	-	-
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
Field Moisture Content:	(%) 11.5	11.0	11.5	-	-
Adjusted Lab OMC:	(%) 12.5	12.0	12.2	-	-
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density:	(t/m ³) 2.15	2.16	2.10	-	-
Adjusted Lab Max CWD:	(t/m ³) 2.15	2.16	2.10	-	-
Compactive Effort:	Standard	Standard	Standard	-	-

Relative Compaction & Moisture

Moisture Variation	(%) 1.0% Drier than OMC	1.0% Drier than OMC	1.0% Drier than OMC	-	-
Moisture Ratio	(%) 93.5	93.5	92.5	-	-
Density Ratio	(%) 98.0	97.0	95.5	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	95.9	3	96.80	1.25	0.739
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 16/09/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A.Lenkeit
Approved Signatory

WB101 - Rev 15, 13/05/2024

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
Laboratory: 15 Elliott Court Hillcrest, QLD 4118
Telephone: (07) 3800 7314
E-Mail: brisbane.south@asct.com.au
Mobile: 0437 776 582
A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 1

Client: See Civil Pty Ltd
Client Address: 108 Siganto Drive, Helensvale QLD 4210
Project: Spring Mountain Acreage Estate - Stage 18C
Component: Level 1 Fill
Lot Number: -

Report No: 57
Report Date: 25/09/2024
Project No: 1937
Test Request: -
ITP/PCP:

Sample Information & Location

Sample Number:	116500	116501	116502	-	-
Field Test Number:	1	2	3	-	-
Date - Field Tested:	11/09/2024	11/09/2024	11/09/2024	-	-
Time - Field Tested:	1400	1405	1410	-	-
Material Source / Type:	On-site - General Fill				
Remarks / Notes:					
Control Line:	-	-	-		
Location/Chainage/Easting:	(m) E: 491689.47	E: 491701.77	E: 491707.04	-	-
Position/Offset/Northing:	(m) N: 6930320.75	N: 6930335.51	N: 6930315.94	-	-
Level/Layer/R.L.	RL: 81.44	RL: 79.64	RL: 79.17	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.11	1.99	2.08	-	-
Field Dry Density:	(t/m ³)	1.94	1.82	1.88	-	-
Retained Oversize (Wet basis):	(%)	8% on 19.0mm	8% on 19.0mm	1% on 19.0mm	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
Field Moisture Content:	(%)	9.0	9.5	10.5	-	-
Adjusted Lab OMC:	(%)	10.9	11.5	12.3	-	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density:	(t/m ³)	2.13	2.06	2.12	-	-
Adjusted Lab Max CWD:	(t/m ³)	2.14	2.08	2.12	-	-
Compactive Effort:		Standard	Standard	Standard	-	-

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC	-	-
Moisture Ratio	(%)	81.5	82.5	84.0	-	-
Density Ratio	(%)	98.5	95.5	98.0	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.1	3	97.33	1.70	0.739
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 24/09/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit
Approved Signatory

WB101 - Rev 15, 13/05/2024

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125

Laboratory: 15 Elliott Court Hillcrest, QLD 4118

Telephone: (07) 3800 7314

E-Mail: brisbane.south@asct.com.au

Mobile: 0437 776 582

A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 1

Client: See Civil Pty Ltd
Client Address: 108 Siganto Drive, Helensvale QLD 4210
Project: Spring Mountain Acreage Estate - Stage 18C
Component: Level 1 Fill
Lot Number: -

Report No: 64
Report Date: 26/09/2024
Project No: 1937
Test Request: -
ITP/PCP:

Sample Information & Location

Sample Number:	116675	116676	116677	116678	116679
Field Test Number:	1	2	3	4	5
Date - Field Tested:	17/09/2024	17/09/2024	17/09/2024	17/09/2024	17/09/2024
Time - Field Tested:	0930	0935	0940	0945	0950
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E: 491680.42	E: 491700.14	E: 491708.01	E: 491722.84	E: 491881.71
Position/Offset/Northing:	(m) N: 6930310.71	N: 6930118.51	N: 6930218.71	N: 6930345.11	N: 6930119.62
Level/Layer/R.L.	RL: 79.64	RL: 79.14	RL: 80.41	RL: 79.82	RL: 79.99
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³) 2.00	1.95	1.97	2.13	2.01
Field Dry Density:	(t/m ³) 1.83	1.78	1.80	1.94	1.83
Retained Oversize (Wet basis):	(%) 3% on 19.0mm	3% on 19.0mm	3% on 19.0mm	3% on 19.0mm	3% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%) 9.5	9.5	9.5	9.5	10.0
Adjusted Lab OMC:	(%) 11.6	11.6	11.4	11.6	11.9
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³) 2.09	2.03	2.05	2.17	2.08
Adjusted Lab Max CWD:	(t/m ³) 2.10	2.05	2.06	2.18	2.09
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%) 2.0% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC
Moisture Ratio	(%) 83.0	83.5	84.0	82.5	82.5
Density Ratio	(%) 95.5	95.5	95.5	97.5	96.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	95.5	5	96.08	0.96	0.572
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 24/09/2024 to 25/09/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A.Lenkeit
Approved Signatory

WB101 - Rev 15, 13/05/2024

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
Laboratory: 15 Elliott Court Hillcrest, QLD 4118
Telephone: (07) 3800 7314
E-Mail: brisbane.south@asct.com.au
Mobile: 0437 776 582
A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & MDD)

Page: 1 of 2

Client: See Civil Pty Ltd
Client Address: 108 Siganto Drive, Helensvale QLD 4210
Project: Spring Mountain Acreage Estate - Stage 18C
Component: Pavement- subgrade
Lot Number: -

Report No: 70
Report Date: 16/10/2024
Project No: 1937
Test Request: -
ITP/PCP: 1

Sample Information & Location

Sample Number:	118267	118268	118269	118270	118271
Field Test Number:	1	2	3	4	5
Date - Field Tested:	3/09/2024	3/09/2024	3/09/2024	3/09/2024	3/09/2024
Time - Field Tested:	0930	0935	0940	0945	0950
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	Spring valley RD	Spring valley RD	Spring valley RD	Spring valley RD	Spring valley RD
Location/Chainage/Easting:	(m) CH:620	CH: 730	CH: 1120	CH: 1220	CH: 1320
Position/Offset/Northing:	(m) 0.1m from LHS	3.4m from LHS	6.0m from LHS	2.1m from LHS	4.6m from LHS
Level/Layer/R.L.	Subgrade	Subgrade	Subgrade	Subgrade	Subgrade
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.12	2.12	2.10	2.10	2.11
Field Dry Density:	(t/m ³)	2.02	2.02	2.00	2.00	2.01
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Retained Oversize (Dry basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Moisture Content Method - AS1289:		.2.1.1 - Oven	.2.1.1 - Oven	.2.1.1 - Oven	.2.1.1 - Oven	.2.1.1 - Oven
Field Moisture Content:	(%)	5.0	5.0	5.0	5.0	5.0
Adjusted Lab OMC:	(%)	9.5	9.5	9.5	9.5	9.5
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Maximum Dry Density (MDD):	(t/m ³)	2.01	2.02	2.00	1.99	2.01
Adjusted Lab MDD:	(t/m ³)	2.01	2.02	2.00	1.99	2.01
Report & Date of Lab Reference Density Test:		-				

Relative Compaction & Moisture

Moisture Ratio	(%)	49.5	51.5	52.0	53.0	52.0
Moisture Variation	(%)	5.0 Dry of OMC	4.5 Dry of OMC	4.5 Dry of OMC	4.5 Dry of OMC	4.5 Dry of OMC
Density Ratio	(%)	100.5	100.5	100.0	100.5	100.0

Characteristic Values of the Lot.*CV calculations derived from Austroads NTR-09 publication*

Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	-	51	6	51.5	1.2	0.523
Maximum (%)	-	52	6	51.5	1.2	0.523
Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	100	100.2	6	100.33	0.26	0.523
Maximum (%)	-	100.5	6	100.33	0.26	0.523

Test Methods Used.

AS 1289.1.2.1, Cl 6.4(b) (Disturbed Sampling), AS1289.1.1 (Prep), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS1289.5.4.1 (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.1.1 (MDD Standard Effort)

Remarks Regarding the Lot.

Laboratory testing 11/10/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

NATA Accreditation number: 19902

Approved By:

A. Lenkeit
Approved Signatory

WB100 - Rev 10, 29/01/2024

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
Laboratory: 15 Elliott Court Hillcrest, QLD 4118
Telephone: (07) 3800 7314
E-Mail: brisbane.south@asct.com.au
Mobile: 0437 776 582
A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & MDD)

Page: 2 of 2

Client: See Civil Pty Ltd
Client Address: 108 Siganto Drive, Helensvale QLD 4210
Project: Spring Mountain Acreage Estate - Stage 18C
Component: Pavement- subgrade
Lot Number: -

Report No: 70
Report Date: 16/10/2024
Project No: 1937
Test Request: -
ITP/PCP: 1

Sample Information & Location

Sample Number:		118272	-	-	-	-
Field Test Number:		6	-	-	-	-
Date - Field Tested:		3/10/2024	-	-	-	-
Time - Field Tested:		0955	-	-	-	-
Material Source / Type:		Onsite - General Fill				
Remarks / Notes:						
Control Line:		Longfin RD	-	-	-	-
Location/Chainage/Easting:	(m)	CH: 260	-	-	-	-
Position/Offset/Northing:	(m)	0.1m from LHS	-	-	-	-
Level/Layer/R.L.		Subgrade	-	-	-	-
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	-	-	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.13	-	-	-	-
Field Dry Density:	(t/m ³)	2.02	-	-	-	-
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	-	-	-	-
Retained Oversize (Dry basis):	(%)	0% on 19.0mm	-	-	-	-
Moisture Content Method - AS1289:		.2.1.1 - Oven	-	-	-	-
Field Moisture Content:	(%)	5.5	-	-	-	-
Adjusted Lab OMC:	(%)	10.5	-	-	-	-
Fraction Tested:		Passing 19.0mm	-	-	-	-
Lab Maximum Dry Density (MDD):	(t/m ³)	2.01	-	-	-	-
Adjusted Lab MDD:	(t/m ³)	2.01	-	-	-	-
Report & Date of Lab Reference Density Test:		-				

Relative Compaction & Moisture

Moisture Ratio	(%)	51.0	-	-	-	-
Moisture Variation	(%)	5.0 Dry of OMC	-	-	-	-
Density Ratio	(%)	100.5	-	-	-	-

Characteristic Values of the Lot. *CV calculations derived from Austroads NTR-09 publication*

Specified Moisture		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	-	51	6	51.5	1.2	0.523
Maximum (%)	-	52	6	51.5	1.2	0.523
Specified Compaction		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	100	100.2	6	100.33	0.26	0.523
Maximum (%)	-	100.5	6	100.33	0.26	0.523

Test Methods Used.

AS 1289.1.2.1, Cl 6.4(b) (Disturbed Sampling), AS1289.1.1 (Prep), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS1289.5.4.1 (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.1.1 (MDD Standard Effort)

Remarks Regarding the Lot.

Laboratory testing 11/10/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

NATA Accreditation number: 19902

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125

Laboratory: 15 Elliott Court Hillcrest, QLD 4118

Telephone: (07) 3800 7314

E-Mail: brisbane.south@asct.com.au

Mobile: 0437 776 582

A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 2

Client: See Civil Pty Ltd
Client Address: 108 Siganto Drive, Helensvale QLD 4210
Project: Spring Mountain Acreage Estate - Stage 18C
Component: Level 1
Lot Number: -

Report No: 71
Report Date: 17/10/2024
Project No: 1937
Test Request: -
ITP/PCP: 1

Sample Information & Location

Sample Number:	118284	118285	118286	118287	118288
Field Test Number:	1	2	3	4	5
Date - Field Tested:	3/10/2024	3/10/2024	3/10/2024	3/10/2024	3/10/2024
Time - Field Tested:	0800	0805	0810	0815	0820
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E: 491898.9	E: 491909	E: 491917	E: 491900.2	E: 491907.5
Position/Offset/Northing:	(m) N: 6930016.9	N: 6930015.7	N: 6930014.6	N: 6930027.2	N: 6930028
Level/Layer/R.L.	RL: 70.12	RL: 69.83	RL: 70.20	RL: 69.82	RL: 69.85
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.15	2.22	2.24	2.18	2.17
Field Dry Density:	(t/m ³)	1.98	2.05	2.06	2.01	1.98
Retained Oversize (Wet basis):	(%)	6% on 19.0mm	4% on 19.0mm	7% on 19.0mm	6% on 19.0mm	11% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	8.5	8.5	9.0	8.5	10.0
Adjusted Lab OMC:	(%)	10.4	10.6	10.9	10.5	11.9
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.19	2.22	2.21	2.21	2.20
Adjusted Lab Max CWD:	(t/m ³)	2.20	2.23	2.21	2.21	2.21
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC	1.5% Drier than OMC
Moisture Ratio	(%)	81.5	81.5	82.0	82.5	85.0
Density Ratio	(%)	98.0	100.0	101.0	98.5	98.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.3	6	98.98	1.22	0.523
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 10/10/2024 to 11/10/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A.Lenkeit
Approved Signatory

WB101 - Rev 15, 13/05/2024

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125

Laboratory: 15 Elliott Court Hillcrest, QLD 4118

Telephone: (07) 3800 7314

E-Mail: brisbane.south@asct.com.au

Mobile: 0437 776 582

A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 2

Client: See Civil Pty Ltd
Client Address: 108 Siganto Drive, Helensvale QLD 4210
Project: Spring Mountain Acreage Estate - Stage 18C
Component: Level 1
Lot Number: -

Report No: 71
Report Date: 17/10/2024
Project No: 1937
Test Request: -
ITP/PCP: 1

Sample Information & Location

Sample Number:	118289	-	-	-	-
Field Test Number:	6	-	-	-	-
Date - Field Tested:	3/10/2024	-	-	-	-
Time - Field Tested:	0825	-	-	-	-
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	0	-	-	-	-
Location/Chainage/Easting:	(m) E: 491912.3	-	-	-	-
Position/Offset/Northing:	(m) N: 6930032.1	-	-	-	-
Level/Layer/R.L.	RL: 70.31	-	-	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	-	-	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.16	-	-	-	-
Field Dry Density:	(t/m ³)	1.96	-	-	-	-
Retained Oversize (Wet basis):	(%)	5% on 19.0mm	-	-	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	-	-	-	-
Field Moisture Content:	(%)	10.0	-	-	-	-
Adjusted Lab OMC:	(%)	12.3	-	-	-	-
Fraction Tested:		Passing 19.0mm	-	-	-	-
Lab Max Converted Wet Density:	(t/m ³)	2.20	-	-	-	-
Adjusted Lab Max CWD:	(t/m ³)	2.20	-	-	-	-
Compactive Effort:		Standard	-	-	-	-

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Drier than OMC	-	-	-	-
Moisture Ratio	(%)	83.5	-	-	-	-
Density Ratio	(%)	98.0	-	-	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.3	6	98.98	1.22	0.523
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 10/10/2024 to 11/10/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125

Laboratory: 15 Elliott Court Hillcrest, QLD 4118

Telephone: (07) 3800 7314

E-Mail: brisbane.south@asct.com.au

Mobile: 0437 776 582

A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page:

1 of 3

Client:	See Civil Pty Ltd	Report No:	72
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	21/10/2024
Project:	Spring Mountain Acreage Estate - Stage 18C	Project No:	1937
Component:	Bulk Earthworks Level 1	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:		119084	119085	119086	119087	119088
Field Test Number:		1	2	3	4	5
Date - Field Tested:		15/10/2024	15/10/2024	15/10/2024	15/10/2024	15/10/2024
Time - Field Tested:		1105	1112	1117	1125	1135
Material Source / Type:		On Site - General Fill				
Remarks / Notes:						
Control Line:		-	-	-	-	-
Location/Chainage/Easting:	(m)	E: 491886.3	E: 491921.5	E: 491941.2	E: 491951.2	E: 491963.2
Position/Offset/Northing:	(m)	N:6930023.0	N:6930014.2	N:6930013.3	N:6930013.9	N:6930010.1
Level/Layer/R.L.		RL:70.2	RL:70.0	RL:70.3	RL:70.4	RL:70.7
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.19	2.20	2.24	2.15	2.22
Field Dry Density:	(t/m ³)	2.00	2.02	2.07	1.98	2.03
Retained Oversize (Wet basis):	(%)	1% on 19.0mm	1% on 19.0mm	0% on 19.0mm	3% on 19.0mm	4% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	9.5	9.0	8.0	8.5	9.5
Adjusted Lab OMC:	(%)	11.4	11.1	10.1	10.5	10.7
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.16	2.18	2.24	2.17	2.19
Adjusted Lab Max CWD:	(t/m ³)	2.16	2.18	2.25	2.18	2.20
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Dryer than OMC	2.0% Dryer than OMC	2.0% Dryer than OMC	2.0% Dryer than OMC	1.5% Dryer than OMC
Moisture Ratio	(%)	82.5	82.0	81.0	82.0	86.5
Density Ratio	(%)	101.0	101.0	100.0	99.0	101.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	100.0	15	100.38	1.19	0.330
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	-2	83.6	15	85.76	6.47	0.330
Maximum (%)	2	87.9	15	85.76	6.47	0.330

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 18/10/2024 to 20/10/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

K.Wesener
Approved Signatory

WB101 - Rev 15, 13/05/2024

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125
Laboratory: 15 Elliott Court Hillcrest, QLD 4118
Telephone: (07) 3800 7314
E-Mail: brisbane.south@asct.com.au
Mobile: 0437 776 582
A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 3

Client: See Civil Pty Ltd
Client Address: 108 Siganto Drive, Helensvale QLD 4210
Project: Spring Mountain Acreage Estate - Stage 18C
Component: Bulk Earthworks Level 1
Lot Number:

Report No: 72
Report Date: 21/10/2024
Project No: 1937
Test Request:
ITP/PCP:

Sample Information & Location

Sample Number:		119089	119090	119091	119092	119093
Field Test Number:		6	7	8	9	10
Date - Field Tested:		15/10/2024	15/10/2024	15/10/2024	15/10/2024	15/10/2024
Time - Field Tested:		1145	1156	1205	1209	1219
Material Source / Type:		On Site - General Fill				
Remarks / Notes:						
Control Line:		-	-	-	-	-
Location/Chainage/Easting:	(m)	E: 491972.0	E: 491979.2	E:491737.6	E:491724.7	E:491714.1
Position/Offset/Northing:	(m)	N:6930009.6	N:6930013.7	N:6930188.2	N:6930198.2	N:6930209.9
Level/Layer/R.L.		RL:70.8	RL:70.9	RL:79.0	RL:79.7	RL:80.1
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.21	2.23	2.19	2.16	2.15
Field Dry Density:	(t/m ³)	2.04	2.03	2.02	1.98	1.96
Retained Oversize (Wet basis):	(%)	4% on 19.0mm	2% on 19.0mm	4% on 19.0mm	0% on 19.0mm	1% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	8.0	9.5	9.0	9.0	9.5
Adjusted Lab OMC:	(%)	10.2	11.6	10.1	11.3	11.1
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.18	2.17	2.16	2.17	2.16
Adjusted Lab Max CWD:	(t/m ³)	2.20	2.17	2.17	2.17	2.16
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Drier than OMC	2.0% Drier than OMC	1.5% Drier than OMC	2.0% Drier than OMC	1.5% Drier than OMC
Moisture Ratio	(%)	80.0	82.5	87.5	81.5	86.5
Density Ratio	(%)	101.0	102.5	101.0	99.5	99.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	100.0	15	100.38	1.19	0.330
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	-2	83.6	15	85.76	6.47	0.330
Maximum (%)	2	87.9	15	85.76	6.47	0.330

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 18/10/2024 to 20/10/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125

Laboratory: 15 Elliott Court Hillcrest, QLD 4118

Telephone: (07) 3800 7314

E-Mail: brisbane.south@asct.com.au

Mobile: 0437 776 582

A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 3 of 3

Client: See Civil Pty Ltd
Client Address: 108 Siganto Drive, Helensvale QLD 4210
Project: Spring Mountain Acreage Estate - Stage 18C
Component: Bulk Earthworks Level 1
Lot Number:

Report No: 72
Report Date: 21/10/2024
Project No: 1937
Test Request:
ITP/PCP:

Sample Information & Location

Sample Number:	119094	119095	119096	119097	119098
Field Test Number:	11	12	13	14	15
Date - Field Tested:	15/10/2024	15/10/2024	15/10/2024	15/10/2024	15/10/2024
Time - Field Tested:	1228	1232	1239	1242	1246
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting: (m)	E:491705.5	E:491705.7	E:491705.1	E:491696.2	E:491684.2
Position/Offset/Northing: (m)	N:6930223.3	N:6930239.7	N:6930255.4	N:6930268.3	N:6930279.5
Level/Layer/R.L.	RL:80.0	RL:80.2	RL:80.0	RL:81.1	RL:81.7
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.17	2.11	2.12	2.18	2.20
Field Dry Density: (t/m ³)	2.00	1.92	1.94	1.97	2.00
Retained Oversize (Wet basis): (%)	0% on 19.0mm	4% on 19.0mm	3% on 19.0mm	1% on 19.0mm	1% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	8.5	10.0	9.0	10.5	10.0
Adjusted Lab OMC: (%)	10.2	10.1	11.0	10.4	11.5
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.18	2.11	2.11	2.18	2.14
Adjusted Lab Max CWD: (t/m ³)	2.18	2.13	2.12	2.19	2.14
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	2.0% Drier than OMC	At OMC	1.5% Drier than OMC	At OMC	1.5% Drier than OMC
Moisture Ratio (%)	82.0	100.5	84.0	101.0	86.5
Density Ratio (%)	99.5	99.0	99.5	99.5	102.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	100.0	15	100.38	1.19	0.330
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	-2	83.6	15	85.76	6.47	0.330
Maximum (%)	2	87.9	15	85.76	6.47	0.330

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 18/10/2024 to 20/10/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125

Laboratory: 15 Elliott Court Hillcrest, QLD 4118

Telephone: (07) 3800 7314

E-Mail: brisbane.south@asct.com.au

Mobile: 0437 776 582

A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page:

1 of 3

Client:	See Civil Pty Ltd	Report No:	73
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	21/10/2024
Project:	Spring Mountain Acreage Estate - Stage 18C	Project No:	1937
Component:	Bulk Earthworks Level 1	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:		119099	119100	119101	119102	119103
Field Test Number:		1	2	3	4	5
Date - Field Tested:		16/10/2024	16/10/2024	16/10/2024	16/10/2024	16/10/2024
Time - Field Tested:		0810	0815	0829	0832	0841
Material Source / Type:		On Site - General Fill				
Remarks / Notes:						
Control Line:		-	-	-	-	-
Location/Chainage/Easting:	(m)	E:491678.4	E:491670.4	E:491664.9	E:491660.4	E:491664.6
Position/Offset/Northing:	(m)	N:6930290.1	N:6930299.6	N:6930315.3	N:6930333.7	N:6930349.7
Level/Layer/R.L.		RL:83.1	RL:84.6	RL:85.2	RL:85.1	RL:84.3
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.15	2.11	2.21	2.10	2.24
Field Dry Density:	(t/m ³)	1.93	1.92	2.00	1.89	2.03
Retained Oversize (Wet basis):	(%)	1% on 19.0mm	4% on 19.0mm	2% on 19.0mm	1% on 19.0mm	1% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	11.0	10.0	10.5	11.0	10.5
Adjusted Lab OMC:	(%)	13.1	11.3	12.4	12.7	12.4
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.17	2.12	2.19	2.13	2.18
Adjusted Lab Max CWD:	(t/m ³)	2.17	2.14	2.20	2.13	2.18
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Dryer than OMC	1.5% Dryer than OMC	2.0% Dryer than OMC	2.0% Dryer than OMC	2.0% Dryer than OMC
Moisture Ratio	(%)	85.0	88.5	84.0	85.5	84.0
Density Ratio	(%)	99.0	99.0	100.5	98.5	103.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	99.8	12	100.46	1.90	0.370
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	-2	83.3	12	84.16	2.28	0.370
Maximum (%)	2	85.0	12	84.16	2.28	0.370

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 18/10/2024 to 20/10/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

K.Wesener

Approved Signatory

WB101 - Rev 15, 13/05/2024

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125

Laboratory: 15 Elliott Court Hillcrest, QLD 4118

Telephone: (07) 3800 7314

E-Mail: brisbane.south@asct.com.au

Mobile: 0437 776 582

A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 3

Client: See Civil Pty Ltd
Client Address: 108 Siganto Drive, Helensvale QLD 4210
Project: Spring Mountain Acreage Estate - Stage 18C
Component: Bulk Earthworks Level 1
Lot Number:

Report No: **73**
Report Date: 21/10/2024
Project No: 1937
Test Request:
ITP/PCP:

Sample Information & Location

Sample Number:	119104	119105	119106	119107	119108
Field Test Number:	6	7	8	9	10
Date - Field Tested:	16/10/2024	16/10/2024	16/10/2024	16/10/2024	16/10/2024
Time - Field Tested:	0858	0911	0915	0927	0936
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting: (m)	E:491674.8	E:491680.0	E:491674.6	E:491662.7	E:491660.1
Position/Offset/Northing: (m)	N:6930362.9	N:6930381.1	N:6930397.7	N:6930412.6	N:6930435.5
Level/Layer/R.L.	RL:82.3	RL:80.6	RL:81.1	RL:82.1	RL:82.7
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.20	2.24	2.16	2.19	2.23
Field Dry Density: (t/m ³)	2.04	2.04	2.00	2.00	2.04
Retained Oversize (Wet basis): (%)	3% on 19.0mm	3% on 19.0mm	4% on 19.0mm	2% on 19.0mm	0% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	8.0	10.0	8.0	9.5	9.5
Adjusted Lab OMC: (%)	10.0	11.9	9.4	11.8	11.6
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.14	2.18	2.18	2.13	2.18
Adjusted Lab Max CWD: (t/m ³)	2.15	2.19	2.19	2.14	2.18
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	2.0% Drier than OMC	2.0% Drier than OMC	1.5% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC
Moisture Ratio (%)	80.0	84.5	85.0	81.5	83.0
Density Ratio (%)	102.5	102.5	98.5	102.5	102.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	99.8	12	100.46	1.90	0.370
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	-2	83.3	12	84.16	2.28	0.370
Maximum (%)	2	85.0	12	84.16	2.28	0.370

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 18/10/2024 to 20/10/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125

Laboratory: 15 Elliott Court Hillcrest, QLD 4118

Telephone: (07) 3800 7314

E-Mail: brisbane.south@asct.com.au

Mobile: 0437 776 582

A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 3 of 3

Client: See Civil Pty Ltd
Client Address: 108 Siganto Drive, Helensvale QLD 4210
Project: Spring Mountain Acreage Estate - Stage 18C
Component: Bulk Earthworks Level 1
Lot Number:

Report No: 73
Report Date: 21/10/2024
Project No: 1937
Test Request:
ITP/PCP:

Sample Information & Location

Sample Number:	119109	119110	-	-	-
Field Test Number:	11	12	-	-	-
Date - Field Tested:	16/10/2024	16/10/2024	-	-	-
Time - Field Tested:	0955	1012	-	-	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting: (m)	E:491672.4	E:491671.2	-	-	-
Position/Offset/Northing: (m)	N:6930451.1	N:6930469.6	-	-	-
Level/Layer/R.L.	RL:82.0	RL:83.7	-	-	-
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	-	-	-

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.11	2.12	-	-	-
Field Dry Density: (t/m ³)	1.92	1.94	-	-	-
Retained Oversize (Wet basis): (%)	1% on 19.0mm	3% on 19.0mm	-	-	-
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-	-
Field Moisture Content: (%)	10.0	9.5	-	-	-
Adjusted Lab OMC: (%)	11.6	11.6	-	-	-
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	-	-	-
Lab Max Converted Wet Density: (t/m ³)	2.15	2.11	-	-	-
Adjusted Lab Max CWD: (t/m ³)	2.16	2.12	-	-	-
Compactive Effort:	Standard	Standard	-	-	-

Relative Compaction & Moisture

Moisture Variation (%)	1.5% Drier than OMC	2.0% Drier than OMC	-	-	-
Moisture Ratio (%)	86.5	82.0	-	-	-
Density Ratio (%)	98.0	100.0	-	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	99.8	12	100.46	1.90	0.370
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	-2	83.3	12	84.16	2.28	0.370
Maximum (%)	2	85.0	12	84.16	2.28	0.370

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 18/10/2024 to 20/10/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

**ASCT Brisbane South**

Postal: PO Box 1232 Park Ridge QLD 4125

Laboratory: 15 Elliott Court Hillcrest, QLD 4118

Telephone: (07) 3800 7314

E-Mail: brisbane.south@asct.com.au

Mobile: 0437 776 582

A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page:

1 of 1

Client:	See Civil Pty Ltd	Report No:	74
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	21/10/2024
Project:	Spring Mountain Acreage Estate - Stage 18C	Project No:	1937
Component:	Bulk Earthworks Level 1	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:		119111	119112	119113	119114	-
Field Test Number:		1	2	3	4	-
Date - Field Tested:		18/10/2024	18/10/2024	18/10/2024	18/10/2024	-
Time - Field Tested:		1210	1215	1220	1225	-
Material Source / Type:		On Site - General Fill				
Remarks / Notes:						
Control Line:		-	-	-	-	
Location/Chainage/Easting:	(m)	E:491764.2	E:491776.4	E:491787.4	E:491776.4	-
Position/Offset/Northing:	(m)	N:6930206.6	N:6930195.7	N:6930203.9	N:6930215.5	-
Level/Layer/R.L.		RL:76.2	RL:75.3	RL:74.6	RL:74.2	-
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	150	150	150	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.13	2.12	2.10	2.19	-
Field Dry Density:	(t/m ³)	1.97	1.94	1.94	2.02	-
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	1% on 19.0mm	3% on 19.0mm	3% on 19.0mm	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-
Field Moisture Content:	(%)	8.5	9.0	8.0	8.5	-
Adjusted Lab OMC:	(%)	9.8	11.2	10.3	10.7	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-
Lab Max Converted Wet Density:	(t/m ³)	2.18	2.16	2.12	2.15	-
Adjusted Lab Max CWD:	(t/m ³)	2.18	2.16	2.13	2.16	-
Compactive Effort:		Standard	Standard	Standard	Standard	-

Relative Compaction & Moisture

Moisture Variation	(%)	1.5% Dryer than OMC	2.0% Dryer than OMC	2.0% Dryer than OMC	2.0% Dryer than OMC	-
Moisture Ratio	(%)	85.0	82.5	79.0	80.0	-
Density Ratio	(%)	98.0	98.0	98.5	101.5	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.9	4	98.98	1.64	0.640
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	-2	79.8	4	81.51	2.64	0.640
Maximum (%)	2	83.2	4	81.51	2.64	0.640

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

Laboratory testing 18/10/2024 to 20/10/2024



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

K.Wesener
Approved Signatory

WB101 - Rev 15, 13/05/2024

Appendix D

Individual Lot Certificates



ASCT Brisbane South

PO Box 1232

PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_Lot 1801

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING **LOT 1801 - Spring Mountain Acreage Estate Stage 18C**

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au

Australian Soil and Concrete Testing Servicing Queensland and New South Wales
Office Locations – QLD – Brisbane Rockhampton, NSW - Ballina, Coffs Coast, Halfway Beach & Western Sydney



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1802

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1802 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

A handwritten signature in blue ink, appearing to read 'Jason Mckenna', with a stylized flourish at the end.

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au

Australian Soil and Concrete Testing Servicing Queensland and New South Wales
Office Locations – QLD – Brisbane Rockhampton, NSW - Ballina, Coffs Coast, Halfway Beach & Western Sydney



ASCT Brisbane South

PO Box 1232

PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1803

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1803 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au

Australian Soil and Concrete Testing Servicing Queensland and New South Wales
Office Locations – QLD – Brisbane Rockhampton, NSW - Ballina, Coffs Coast, Halfway Beach & Western Sydney



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1804

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1804 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

A handwritten signature in blue ink, appearing to read 'Jason Mckenna', with a stylized flourish at the end.

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au

Australian Soil and Concrete Testing Servicing Queensland and New South Wales
Office Locations – QLD – Brisbane Rockhampton, NSW - Ballina, Coffs Coast, Halfway Beach & Western Sydney



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1805

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1805 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

A handwritten signature in blue ink, appearing to read 'Jason Mckenna', with a stylized flourish at the end.

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au

Australian Soil and Concrete Testing Servicing Queensland and New South Wales
Office Locations – QLD – Brisbane Rockhampton, NSW - Ballina, Coffs Coast, Halfway Beach & Western Sydney



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1806

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1806 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

A handwritten signature in blue ink, appearing to read 'Jason Mckenna', with a stylized flourish at the end.

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au

Australian Soil and Concrete Testing Servicing Queensland and New South Wales
Office Locations – QLD – Brisbane Rockhampton, NSW - Ballina, Coffs Coast, Halfway Beach & Western Sydney



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1807

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1807 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

A handwritten signature in blue ink, appearing to read 'Jason Mckenna', with a stylized flourish at the end.

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au

Australian Soil and Concrete Testing Servicing Queensland and New South Wales
Office Locations – QLD – Brisbane Rockhampton, NSW - Ballina, Coffs Coast, Halfway Beach & Western Sydney



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1808

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1808 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au

Australian Soil and Concrete Testing Servicing Queensland and New South Wales
Office Locations – QLD – Brisbane Rockhampton, NSW - Ballina, Coffs Coast, Halfway Beach & Western Sydney



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1809

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1809 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au



ASCT Brisbane South

PO Box 1232

PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1810

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1810 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au

Australian Soil and Concrete Testing Servicing Queensland and New South Wales
Office Locations – QLD – Brisbane Rockhampton, NSW - Ballina, Coffs Coast, Halfway Beach & Western Sydney



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1811

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1811 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au

Australian Soil and Concrete Testing Servicing Queensland and New South Wales
Office Locations – QLD – Brisbane Rockhampton, NSW - Ballina, Coffs Coast, Halfway Beach & Western Sydney



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1812

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1812 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

A handwritten signature in blue ink, appearing to read 'Jason Mckenna', with a stylized flourish at the end.

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1813

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1813 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1814

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1814 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au

Australian Soil and Concrete Testing Servicing Queensland and New South Wales
Office Locations – QLD – Brisbane Rockhampton, NSW - Ballina, Coffs Coast, Halfway Beach & Western Sydney



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1815

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1815 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

A handwritten signature in blue ink, appearing to read 'Jason Mckenna', with a stylized flourish at the end.

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au

Australian Soil and Concrete Testing Servicing Queensland and New South Wales
Office Locations – QLD – Brisbane Rockhampton, NSW - Ballina, Coffs Coast, Halfway Beach & Western Sydney



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1816

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1816 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

A handwritten signature in blue ink, appearing to read 'Jason Mckenna', with a stylized flourish at the end.

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au

Australian Soil and Concrete Testing Servicing Queensland and New South Wales
Office Locations – QLD – Brisbane Rockhampton, NSW - Ballina, Coffs Coast, Halfway Beach & Western Sydney



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1817

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1817 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

A handwritten signature in blue ink, appearing to read 'Jason Mckenna', with a stylized flourish at the end.

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au

Australian Soil and Concrete Testing Servicing Queensland and New South Wales
Office Locations – QLD – Brisbane Rockhampton, NSW - Ballina, Coffs Coast, Halfway Beach & Western Sydney



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1818

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1818 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

A handwritten signature in blue ink, appearing to read 'Jason Mckenna', with a stylized flourish at the end.

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au

Australian Soil and Concrete Testing Servicing Queensland and New South Wales
Office Locations – QLD – Brisbane Rockhampton, NSW - Ballina, Coffs Coast, Halfway Beach & Western Sydney



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1819

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1819 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

A handwritten signature in blue ink, appearing to read 'Jason Mckenna', with a stylized flourish at the end.

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au

Australian Soil and Concrete Testing Servicing Queensland and New South Wales
Office Locations – QLD – Brisbane Rockhampton, NSW - Ballina, Coffs Coast, Halfway Beach & Western Sydney



ASCT Brisbane South

PO Box 1232

PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1820

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1820 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

A handwritten signature in blue ink, appearing to read 'Jason Mckenna', with a stylized flourish at the end.

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au

Australian Soil and Concrete Testing Servicing Queensland and New South Wales
Office Locations – QLD – Brisbane Rockhampton, NSW - Ballina, Coffs Coast, Halfway Beach & Western Sydney



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1821

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1821 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au

Australian Soil and Concrete Testing Servicing Queensland and New South Wales
Office Locations – QLD – Brisbane Rockhampton, NSW - Ballina, Coffs Coast, Halfway Beach & Western Sydney



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1822

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1822 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

A handwritten signature in blue ink, appearing to read 'Jason Mckenna', with a stylized flourish at the end.

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au

Australian Soil and Concrete Testing Servicing Queensland and New South Wales
Office Locations – QLD – Brisbane Rockhampton, NSW - Ballina, Coffs Coast, Halfway Beach & Western Sydney



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1823

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1823 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1824

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1824 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

A handwritten signature in blue ink, appearing to read 'Jason Mckenna', with a stylized flourish at the end.

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1825

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1825 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

A handwritten signature in blue ink, appearing to read 'Jason Mckenna', with a stylized flourish at the end.

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au

Australian Soil and Concrete Testing Servicing Queensland and New South Wales
Office Locations – QLD – Brisbane Rockhampton, NSW - Ballina, Coffs Coast, Halfway Beach & Western Sydney



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1826

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1826 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

A handwritten signature in blue ink, appearing to read 'Jason Mckenna', with a stylized flourish at the end.

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au

Australian Soil and Concrete Testing Servicing Queensland and New South Wales
Office Locations – QLD – Brisbane Rockhampton, NSW - Ballina, Coffs Coast, Halfway Beach & Western Sydney



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1827

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1827 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

A handwritten signature in blue ink, appearing to read 'Jason Mckenna', with a stylized flourish at the end.

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au

Australian Soil and Concrete Testing Servicing Queensland and New South Wales
Office Locations – QLD – Brisbane Rockhampton, NSW - Ballina, Coffs Coast, Halfway Beach & Western Sydney



ASCT Brisbane South

PO Box 1232

PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1828

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1828 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au

Australian Soil and Concrete Testing Servicing Queensland and New South Wales
Office Locations – QLD – Brisbane Rockhampton, NSW - Ballina, Coffs Coast, Halfway Beach & Western Sydney



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1829

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1829 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1830

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1830 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au

Australian Soil and Concrete Testing Servicing Queensland and New South Wales
Office Locations – QLD – Brisbane Rockhampton, NSW - Ballina, Coffs Coast, Halfway Beach & Western Sydney



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1831

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1831 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

A handwritten signature in blue ink, appearing to read 'Jason Mckenna', with a stylized flourish at the end.

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au

Australian Soil and Concrete Testing Servicing Queensland and New South Wales
Office Locations – QLD – Brisbane Rockhampton, NSW - Ballina, Coffs Coast, Halfway Beach & Western Sydney



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1832

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1832 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

A handwritten signature in blue ink, appearing to read 'Jason Mckenna', with a stylized flourish at the end.

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au

Australian Soil and Concrete Testing Servicing Queensland and New South Wales
Office Locations – QLD – Brisbane Rockhampton, NSW - Ballina, Coffs Coast, Halfway Beach & Western Sydney



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1833

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1833 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1834

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1834 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

A handwritten signature in blue ink, appearing to read 'Jason Mckenna', with a stylized flourish at the end.

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au

Australian Soil and Concrete Testing Servicing Queensland and New South Wales
Office Locations – QLD – Brisbane Rockhampton, NSW - Ballina, Coffs Coast, Halfway Beach & Western Sydney



ASCT Brisbane South

PO Box 1232

PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1835

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1835 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au

Australian Soil and Concrete Testing Servicing Queensland and New South Wales
Office Locations – QLD – Brisbane Rockhampton, NSW - Ballina, Coffs Coast, Halfway Beach & Western Sydney



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1836

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1836 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1837

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1837 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

A handwritten signature in blue ink, appearing to read 'Jason Mckenna', with a stylized flourish at the end.

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au

Australian Soil and Concrete Testing Servicing Queensland and New South Wales
Office Locations – QLD – Brisbane Rockhampton, NSW - Ballina, Coffs Coast, Halfway Beach & Western Sydney



ASCT Brisbane South

PO Box 1232

PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1838

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING LOT 1838 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au

Australian Soil and Concrete Testing Servicing Queensland and New South Wales
Office Locations – QLD – Brisbane Rockhampton, NSW - Ballina, Coffs Coast, Halfway Beach & Western Sydney



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1839

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1839 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

A handwritten signature in blue ink, appearing to read 'Jason Mckenna', with a stylized flourish at the end.

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au

Australian Soil and Concrete Testing Servicing Queensland and New South Wales
Office Locations – QLD – Brisbane Rockhampton, NSW - Ballina, Coffs Coast, Halfway Beach & Western Sydney



ASCT Brisbane South

PO Box 1232

PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1840

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1840 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au

Australian Soil and Concrete Testing Servicing Queensland and New South Wales
Office Locations – QLD – Brisbane Rockhampton, NSW - Ballina, Coffs Coast, Halfway Beach & Western Sydney



ASCT Brisbane South

PO Box 1232
PARK RIDGE QLD 4125

ABN: 28 608 830 306

ACN: 608 830 306

Mobile: 0437 776 582 or 0439 776 589

Email: brisbane.south@asct.com.au

Web: www.asct.com.au

22/10/2024

Ref No: 1937_Spring Mountain Acreage Estate Stage 18C_ Lot 1841

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4212

CERTIFICATE OF CONTROLLED FILLING

LOT 1841 - Spring Mountain Acreage Estate Stage 18C

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 21/06/24 and 17/10/24.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on the allotment is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our report Ref No:

1937_Spring Mountain Acreage Estate Stage 18C, Dated 22/10/2024

Please do not hesitate to contact our office if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South PTY LTD

jason.mckenna@asct.com.au