



24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1

REPORT ON LEVEL 1

EARTHWORKS INSPECTION AND TESTING



PROJECT: FLAGSTONE CITY STAGE 2D & 2E

CONTRACTOR: SEE CIVIL PTY LTD

TABLE OF CONTENTS

1 INTRODUCTION

1.0 General

1.1 Site Description

2 WORKS AND SPECIFICATIONS

3 FILL FOUNDATION

4 COMPLIANCE TESTING

5 CONCLUSION

6 LIMITATIONS

Appendix A – Test Location Map

Appendix B – Test Reports

Appendix C – Individual Lot Certificates

The earthworks generally comprised of Level 1 fill placed across the site during the Bulk Earthworks Stage 2 Project. The remainder of the site earthworks conducted as part of stage 2D & 2E consisted of leveling and trimming of allotments where required. Filling was conducted by using site won materials. The fill materials were placed in layers not exceeding 200mm and moisture conditioned as required. Pad foot rollers were then utilized 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% of the maximum dry density as determined by AS1289.5.4.1 (Standard Compaction).

3 FILL FOUNDATION

The stripped surfaces of proposed fill areas were inspected and proof rolled prior to placement of fill. In general, 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
- adequate removal of soft compressible soils
- soundness (minimum deflection) under proof rolling
- Adequate benching into existing slopes/batters

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 (AS 1289 5.8.1, 5.1.1, 5.7.1 & 2.1.1).

SUMMARY OF FIELD DENSITY TEST RESULTS

TEST NO	LAB NO.	LOCATION				DENSITY RATIO %
80	35378	Stage 2D & 2E	E: 34614.09	N: 73849.89	RL: 47.81	99.0
88	35386	Stage 2D & 2E	E: 34741.68	N: 73984.86	RL: 54.78	96.0
89	35387	Stage 2D & 2E	E: 34737.56	N: 73951.25	RL: 54.18	99.5
90	35388	Stage 2D & 2E	E: 34735.76	N: 73922.61	RL: 53.52	103.5

91	35389	Stage 2D & 2E	E:34730.54	N: 73887.71	RL: 52.44	102.0
92	35390	Stage 2D & 2E	E: 34572.77	N: 74052.32	RL: 52.14	95.5
122	43276	Stage 2D & 2E	E: 34732.80	N: 73873.36	RL: 53.14	95.5
123	43277	Stage 2D & 2E	E: 34726.29	N: 73889.38	RL: 52.97	95.5
124	43278	Stage 2D & 2E	E: 34735.57	N: 73906.22	RL: 52.94	97.0
125	43279	Stage 2D & 2E	E: 34755.09	N: 74101.28	-	100.0
126	43280	Stage 2D & 2E	E: 34769.36	N: 74113.27	-	100.0
141	43424	Stage 2D & 2E	E: 34758.91	N: 74090.33	RL: 54.92	96.0
142	43425	Stage 2D & 2E	E: 34775.93	N: 74096.24	RL: 55.25	98.5
143	43426	Stage 2D & 2E	E: 34764.27	N: 74101.80	RL: 54.79	98.0
144	43427	Stage 2D & 2E	E: 34792.04	N: 74108.47	RL: 55.09	99.0
145	43428	Stage 2D & 2E	E: 34767.50	N: 74104.88	RL: 55.02	99.0
146	43429	Stage 2D & 2E	E: 34783.19	N: 74119.72	RL: 55.47	97.0
147	43450	Stage 2D & 2E	E: 34757.22	N: 73924.66	RL: 55.24	96.0
148	43451	Stage 2D & 2E	E: 34765.52	N: 73945.08	RL: 55.20	97.0
149	43452	Stage 2D & 2E	E: 34761.29	N: 73958.25	RL: 55.58	97.0
150	43453	Stage 2D & 2E	E: 34769.18	N: 73967.13	RL: 55.69	100.0
224	43805	Stage 2D & 2E	E: 34745.12	N: 74140.08	RL: 59.11	100.5
225	43806	Stage 2D & 2E	E: 34764.97	N: 74130.60	RL: 58.65	100.5
226	43807	Stage 2D & 2E	E: 34776.25	N: 74116.83	RL: 58.24	103.0
227	43808	Stage 2D & 2E	E: 34760.73	N: 74107.44	RL: 57.84	103.0
228	43809	Stage 2D & 2E	E: 34754.55	N: 74095.65	RL: 57.52	100.0
229	43905	Stage 2D & 2E	E: 34645.87	N: 74163.28	FL	100.5
235	43911	Stage 2D & 2E	E: 34756.20	N: 73875.26	FL	102.0
236	43912	Stage 2D & 2E	E: 34740.10	N: 73892.75	FL	98.5
237	43913	Stage 2D & 2E	E: 34750.65	N: 73907.33	FL	100.5
238	43914	Stage 2D & 2E	E: 34745.53	N: 73939.31	FL	101.5
239	43915	Stage 2D & 2E	E: 34749.88	N: 74010.55	FL	101.5
240	43916	Stage 2D & 2E	E: 34753.29	N: 74057.83	FL	99.0
241	43917	Stage 2D & 2E	E: 34744.83	N: 73883.25	FL	99.5
242	43918	Stage 2D & 2E	E: 34751.04	N: 73898.46	FL	101.5
243	43919	Stage 2D & 2E	E: 34745.96	N: 73911.37	FL	99.0
244	43920	Stage 2D & 2E	E: 34752.45	N: 73921.24	FL	99.0
245	43921	Stage 2D & 2E	E: 34749.27	N: 73955.19	FL	100.0
246	43922	Stage 2D & 2E	E: 34755.68	N: 73982.63	FL	100.0
439	46665	Stage 2D & 2E	E: 34401.758	N: 74071.231	RL: 43.75	100.0
440	46666	Stage 2D & 2E	E: 34417.843	N: 74049.663	RL: 43.53	99.0
441	46667	Stage 2D & 2E	E: 34377.865	N: 74088.219	RL: 44.19	96.5
442	46668	Stage 2D & 2E	E: 34365.889	N: 74072.156	RL: 44.41	97.5
443	47297	Stage 2D & 2E	E: 34351.85	N: 74071.29	RL: 44.58	98.5
444	47298	Stage 2D & 2E	E: 34342.27	N: 74061.25	RL: 44.60	98.0

445	47299	Stage 2D & 2E	E: 34418.61	N: 74050.49	RL: 44.88	99.5
F1	45083	Lot 972	9m off Front Boundary	6m off Left Boundary	FL	97.5
F2	45084	Lot 977	11m off Front Boundary	2m off Left Boundary	FL	96.0
F3	45085	Lot 978	5m off Front Boundary	6m off Right Boundary	FL	96.5
F4	45086	Lot 1048	9m off Front Boundary	7m off Right Boundary	FL	98.5
F5	45087	Lot 979	8m off Front Boundary	3m off Left Boundary	FL	102.5
F6	45088	Lot 980	14m off Front Boundary	6m off Left Boundary	FL	103.5
F7	45089	Lot 981	5m off Front Boundary	4m off Left Boundary	FL	97.5
F8	45090	Lot 960	9m off Front Boundary	5m off Right Boundary	FL	101.0
F9	45151	Lot 982	10m off Front Boundary	3m off Right Boundary	FL	100.0
F10	45152	Lot 971	9m off Front Boundary	4m off Left Boundary	FL	96.5
F11	45153	Lot 970	12m off Front Boundary	9m off Left Boundary	FL	99.0
F12	45154	Lot 969	11m off Front Boundary	4m off Right Boundary	FL	103.0
F13	45155	Lot 968	7m off Front Boundary	7m off Left Boundary	FL	99.0
F14	45156	Lot 983	9m off Front Boundary	5m off Left Boundary	FL	98.0
F15	45157	Lot 966	14m off Front Boundary	7m off Left Boundary	FL	99.5
F16	45158	Lot 967	10m off Front Boundary	3m off Right Boundary	FL	99.5
F17	45159	Lot 958	10m off Front Boundary	5m off Left Boundary	FL	98.0
F18	45160	Lot 959	5m off Front Boundary	9m off Right Boundary	FL	102.5
F19	45668	Lot 902	5m off Front Boundary	9m off Left Boundary	FL	99.5
F20	45669	Lot 903	2m off Front Boundary	8m off Left Boundary	FL	101.5
F21	45670	Lot 904	4m off Front Boundary	6m off Right Boundary	FL	99.0
F22	45671	Lot 905	3m off Front Boundary	9m off Left Boundary	FL	100.5
F23	45679	Lot 957	6m off Front Boundary	8m off Left Boundary	FL	97.5
F24	45680	Lot 1030	11m off Back Boundary	4m off Left Boundary	FL	102.0
F25	45681	Lot 1029	14m off Back Boundary	7m off Left Boundary	FL	101.5
F26	45682	Lot 1028	9m off Back Boundary	2m off Left Boundary	FL	95.5
F27	45683	Lot 1027	5m off Front Boundary	5m off Right Boundary	FL	99.0
F28	45684	Lot 1026	3m off Front Boundary	6m off Left Boundary	FL	98.5
F29	45685	Lot 1025	13m off Back Boundary	8m off Right Boundary	FL	97.5
F30	45686	Lot 1024	2m off Front Boundary	9m off Right Boundary	FL	96.5
F31	45687	Lot 1023	6m off Front Boundary	7m off Left Boundary	FL	95.5

No. of Tests: 77

Mean: 99.1 %

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 15/10/2020 and 12/03/2021 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.

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

Yours faithfully

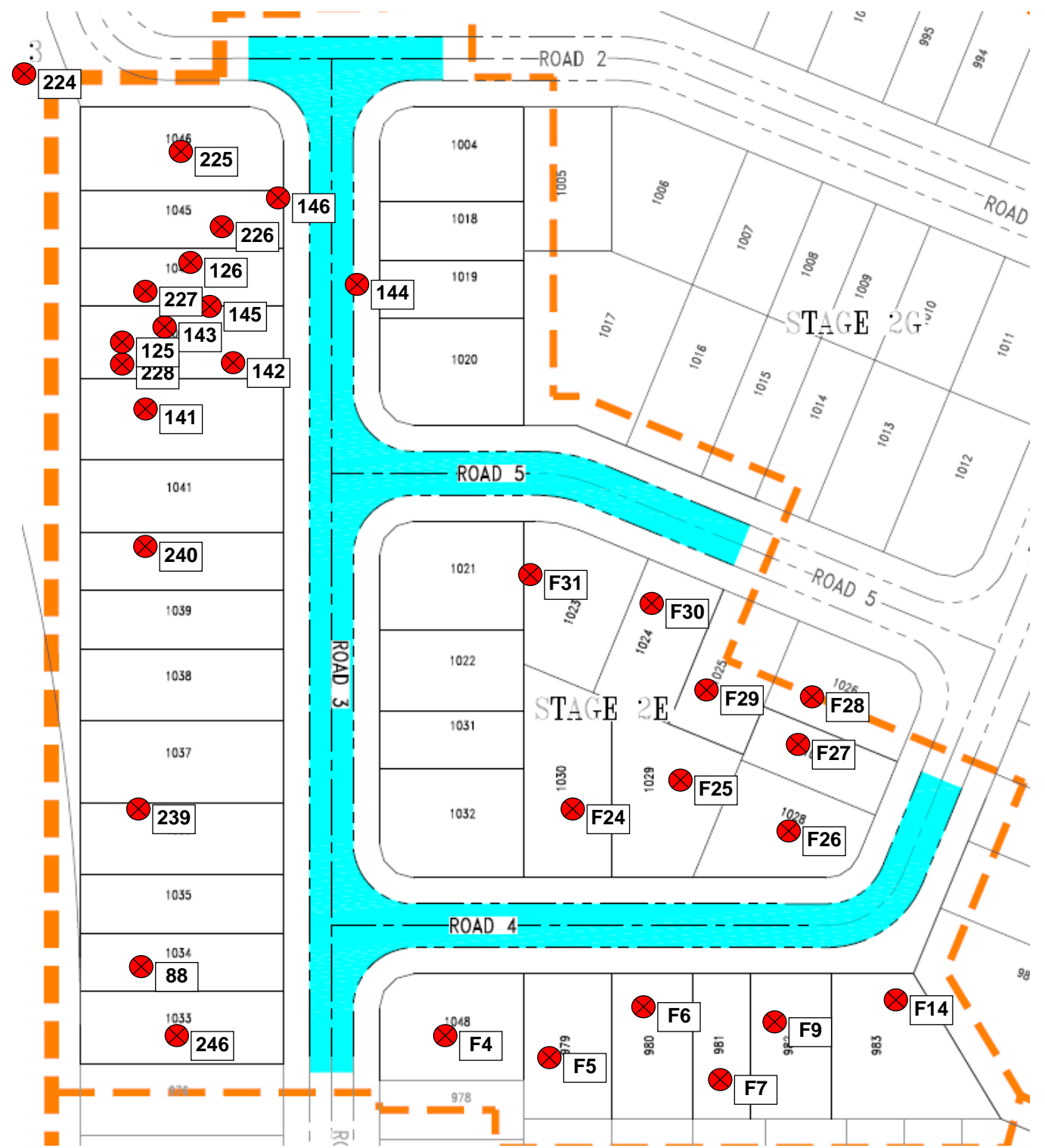
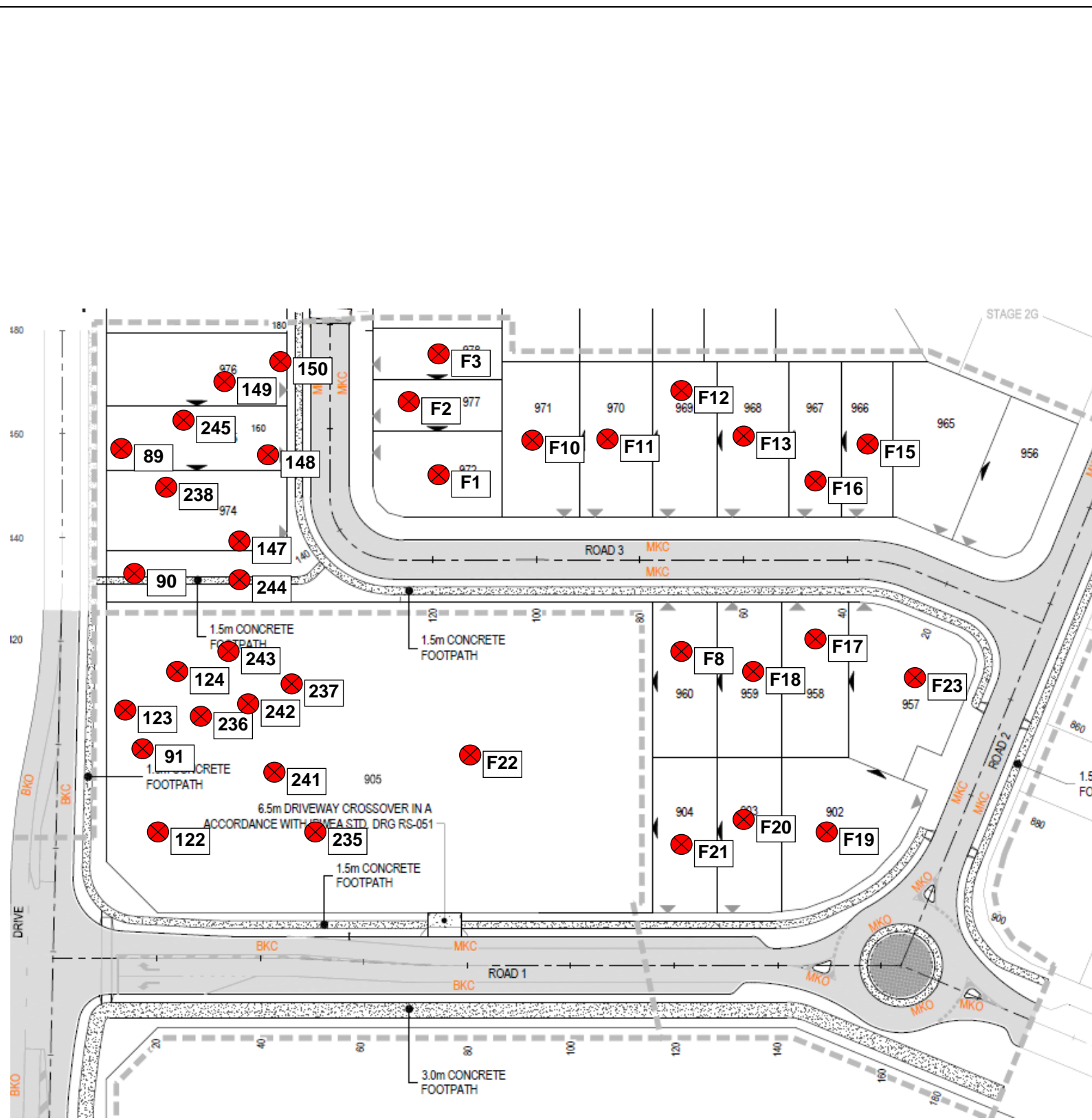


Jason Mckenna
Laboratory Manager

ASCT Brisbane South

Appendix A

Test Location Map



Note: Locations are approximate



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

Client: SEE Civil Pty Ltd

Project Name: Flagstone City Stage 2D & 2E

FIGURE 1
 Compaction Test
 Locations

Job No: 854

Appendix B Test Reports



ASCT Brisbane South
 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 1

Client:	See Civil Pty Ltd	Report No:	18
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	4/03/2021
Project:	Flagstone City - Stage 2D & 2E	Project No:	854
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:	46665	46666	-	-	-
Field Test Number:	1	2	-	-	-
Date - Field Tested:	26/02/2021	26/02/2021	-	-	-
Time - Field Tested:	1400	1410	-	-	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	-				
Location/Chainage/Easting:	(m) E: 34401.758	E: 34417.843	-	-	-
Position/Offset/Northing:	(m) N: 74071.231	N: 74049.663	-	-	-
Level/Layer/R.L.	RL: 43.75	RL: 43.53	-	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	-	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³) 2.25	2.22	-	-	-
Field Dry Density:	(t/m ³) 2.06	2.02	-	-	-
Retained Oversize (Wet basis):	(%) 12% on 19.0mm	11% on 19.0mm	-	-	-
Material Description:	-				
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.4 - Microwave	-	-	-
Field Moisture Content:	(%) 9.5	10.5	-	-	-
Adjusted Lab OMC:	(%) 11.4	12.1	-	-	-
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	-	-	-
Lab Max Converted Wet Density:	(t/m ³) 2.23	2.22	-	-	-
Adjusted Lab Max CWD:	(t/m ³) 2.25	2.24	-	-	-
Compactive Effort:	Standard	Standard	-	-	-

Relative Compaction & Moisture

Moisture Variation	(%) 2.0% Drier than OMC	1.5% Drier than OMC	-	-	-
Moisture Ratio	(%) 81.5	84.5	-	-	-
Density Ratio	(%) 100.0	99.0	-	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	99.1	2	99.60	0.57	0.905
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 - (Dry Density Ratio, Moisture Variation & 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 03/03/2021

	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: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 1

Client:	See Civil Pty Ltd	Report No:	19
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	5/03/2021
Project:	Flagstone City - Stage 2D & 2E	Project No:	854
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:	46667	46668	-	-	-
Field Test Number:	1	2	-	-	-
Date - Field Tested:	1/03/2021	1/03/2021	-	-	-
Time - Field Tested:	1400	1410	-	-	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	-				
Location/Chainage/Easting:	(m) E: 34377.865	E: 34365.889	-	-	-
Position/Offset/Northing:	(m) N: 74088.219	N: 74072.156	-	-	-
Level/Layer/R.L.	RL: 44.19	RL: 44.41	-	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	-	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³) 2.05	2.14	-	-	-
Field Dry Density:	(t/m ³) 1.86	1.96	-	-	-
Retained Oversize (Wet basis):	(%) 10% on 19.0mm	11% on 19.0mm	-	-	-
Material Description:	-				
Moisture Content Method:	AS1289.2.1.1 - Oven				
Field Moisture Content:	(%) 10.5	9.0	-	-	-
Adjusted Lab OMC:	(%) 11.0	9.6	-	-	-
Fraction Tested:	Passing 19.0mm				
Lab Max Converted Wet Density:	(t/m ³) 2.09	2.16	-	-	-
Adjusted Lab Max CWD:	(t/m ³) 2.12	2.20	-	-	-
Compactive Effort:	Standard				

Relative Compaction & Moisture

Moisture Variation	(%) 0.5% Drier than OMC	0.5% Drier than OMC	-	-	-
Moisture Ratio	(%) 93.0	94.5	-	-	-
Density Ratio	(%) 96.5	97.5	-	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.1	2	96.85	0.78	0.905
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 - (Dry Density Ratio, Moisture Variation & 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 03/03/2021

	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: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 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:	25
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	22/03/2021
Project:	Flagstone City - Stage 2D & 2E	Project No:	854
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	47297	47298	47299	-	-
Field Test Number:	1	2	3	-	-
Date - Field Tested:	12/03/2021	12/03/2021	12/03/2021	-	-
Time - Field Tested:	1400	1410	1420	-	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E: 34351.85	E: 34342.27	E: 34418.61	-	-
Position/Offset/Northing:	(m) N: 74071.29	N: 74061.25	N: 74050.49	-	-
Level/Layer/R.L.	RL: 44.58	RL: 44.60	RL: 44.88	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.15	2.13	2.17	-	-
Field Dry Density:	(t/m ³)	1.95	1.93	1.96	-	-
Retained Oversize (Wet basis):	(%)	7% on 19.0mm	5% on 19.0mm	5% 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	10.5	11.0	-	-
Adjusted Lab OMC:	(%)	10.2	9.9	10.2	-	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density:	(t/m ³)	2.17	2.16	2.17	-	-
Adjusted Lab Max CWD:	(t/m ³)	2.19	2.17	2.18	-	-
Compactive Effort:		Standard	Standard	Standard	-	-

Relative Compaction & Moisture

Moisture Variation	(%)	At OMC	0.5% Wetter than OMC	1% Wetter than OMC	-	-
Moisture Ratio	(%)	100.0	105.5	107.5	-	-
Density Ratio	(%)	98.5	98.0	99.5	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.1	3	98.63	0.76	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 - (Dry Density Ratio, Moisture Variation & 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 17/03/2021



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



ASCT Brisbane South
 PO Box 1232 Park Ridge QLD 4125
 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 1

Client:	See Civil Pty Ltd	Report No:	26
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	30/03/2020
Project:	Flagstone City - Stage 2 Bulk Earthworks	Project No:	664
Component:	Bulk Earthworks	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:	35386	35387	35388	35389	35390
Field Test Number:	1	2	3	4	5
Date - Field Tested:	20/03/2020	20/03/2020	20/03/2020	20/03/2020	20/03/2020
Time - Field Tested:	0945	0955	1010	1015	1020
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	-				
Location/Chainage/Easting: (m)	E: 34741.68	E: 34737.56	E: 34735.76	E:34730.54	E: 34572.77
Position/Offset/Northing: (m)	N: 73984.86	N: 73951.25	N: 73922.61	N: 73887.71	N: 74052.32
Level/Layer/R.L.	RL: 54.78	RL: 54.18	RL: 53.52	RL: 52.44	RL: 52.14
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.15	2.18	2.17	2.08	1.94
Field Dry Density: (t/m ³)	2.02	2.04	1.88	1.78	1.76
Retained Oversize (Wet basis): (%)	7% on 19.0mm	5% on 19.0mm	9% on 19.0mm	4% on 19.0mm	2% on 19.0mm
Material Description:	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay
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: (%)	6.0	7.0	15.5	16.5	10.0
Adjusted Lab OMC: (%)	7.9	8.8	17.1	18.7	12.0
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)	2.23	2.18	2.07	2.03	2.02
Adjusted Lab Max CWD: (t/m ³)	2.24	2.20	2.10	2.04	2.03
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% Drier than OMC	2% Drier than OMC
Moisture Ratio (%)	76.0	78.0	90.5	89.0	85.5
Density Ratio (%)	96.0	99.5	103.5	102.0	95.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.2	5	99.16	3.47	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 - (Dry Density Ratio, Moisture Variation & 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 24/03/2020 to 26/03/2020



Accredited for compliance with ISO/IEC 17025 - Testing. The results of the tests included in this document are traceable to Australian/national standards.
 Accreditation number: 19902

(Signature)

Approved By: A.Lenkeit
 Approved Signatory


ASCT Brisbane South

 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	See Civil Pty Ltd	Report No:	33
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	19/10/2020
Project:	Flagstone City - Stage 2 Bulk Earthworks	Project No:	664
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:	43276	43277	43278	43279	43280
Field Test Number:	1	2	3	4	5
Date - Field Tested:	15/10/2020	15/10/2020	15/10/2020	15/10/2020	15/10/2020
Time - Field Tested:	AM	AM	AM	PM	PM
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Stage 2D	Stage 2D	Stage 2D	Stage 2E	Stage 2E
Location/Chainage/Easting: (m)	E: 34732.80	E: 34726.29	E: 34735.57	E: 34755.09	E: 34769.36
Position/Offset/Northing: (m)	N: 73873.36	N: 73889.38	N: 73906.22	N: 74101.28	N: 74113.27
Level/Layer/R.L.	RL: 53.14	RL: 52.97	RL: 52.94	-	-
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	1.94	1.97	2.01	2.16	2.15
Field Dry Density: (t/m ³)	1.74	1.79	1.82	1.99	1.97
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: (%)	11.5	10.5	10.5	8.5	9.0
Adjusted Lab OMC: (%)	13.6	12.1	12.5	10.4	10.9
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)	2.04	2.07	2.07	2.16	2.15
Adjusted Lab Max CWD: (t/m ³)	2.04	2.07	2.07	2.16	2.15
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	2.0% Dryer than OMC	2.0% Dryer than OMC	2% Dryer than OMC	2% Dryer than OMC	2% Dryer than OMC
Moisture Ratio (%)	84.5	84.5	86.0	81.0	82.0
Density Ratio (%)	95.5	95.5	97.0	100.0	100.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.3	5	97.58	2.30	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 - (Dry Density Ratio, Moisture Variation & 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 16/10/2020



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


ASCT Brisbane South

 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	See Civil Pty Ltd	Report No:	37
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	27/10/2020
Project:	Flagstone City - Stage 2 Bulk Earthworks	Project No:	664
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:	43424	43425	43426	43427	43428
Field Test Number:	1	2	3	4	5
Date - Field Tested:	21/10/2020	21/10/2020	21/10/2020	21/10/2020	21/10/2020
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Stage 2E	Stage 2E	Stage 2E	Stage 2E	Stage 2E
Location/Chainage/Easting: (m)	E: 34758.91	E: 34775.93	E: 34764.27	E: 34792.04	E: 34767.50
Position/Offset/Northing: (m)	N: 74090.33	N: 74096.24	N: 74101.80	N: 74108.47	N: 74104.88
Level/Layer/R.L.	RL: 54.92	RL: 55.25	RL: 54.79	RL: 55.09	RL: 55.02
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	1.89	1.92	1.94	1.92	1.95
Field Dry Density: (t/m ³)	1.71	1.74	1.76	1.75	1.79
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: (%)	10.5	10.0	10.0	9.5	9.0
Adjusted Lab OMC: (%)	12.1	12.0	11.7	11.1	10.8
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)	1.97	1.95	1.99	1.94	1.97
Adjusted Lab Max CWD: (t/m ³)	1.97	1.95	1.99	1.94	1.97
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	1.5% Drier than OMC	2.0% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	2% Drier than OMC
Moisture Ratio (%)	87.0	85.5	86.0	85.5	82.0
Density Ratio (%)	96.0	98.5	98.0	99.0	99.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.2	6	97.85	1.19	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 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), T100(AS1289.1.2.1, Cl 6.4b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 26/10/2020



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



ASCT Brisbane South
 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	37
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	27/10/2020
Project:	Flagstone City - Stage 2 Bulk Earthworks	Project No:	664
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:	43429	-	-	-	-
Field Test Number:	6	-	-	-	-
Date - Field Tested:	21/10/2020	-	-	-	-
Time - Field Tested:	AM	-	-	-	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Stage 2E	-	-	-	-
Location/Chainage/Easting: (m)	E: 34783.19	-	-	-	-
Position/Offset/Northing: (m)	N: 74119.72	-	-	-	-
Level/Layer/R.L.	RL: 55.47	-	-	-	-
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	-	-	-	-

Field & Laboratory Results

Field Wet Density: (t/m ³)	1.92	-	-	-	-
Field Dry Density: (t/m ³)	1.77	-	-	-	-
Retained Oversize (Wet basis): (%)	0% on 19.0mm	-	-	-	-
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	-	-	-	-
Field Moisture Content: (%)	8.5	-	-	-	-
Adjusted Lab OMC: (%)	9.9	-	-	-	-
Fraction Tested:	Passing 19.0mm	-	-	-	-
Lab Max Converted Wet Density: (t/m ³)	1.98	-	-	-	-
Adjusted Lab Max CWD: (t/m ³)	1.98	-	-	-	-
Compactive Effort:	Standard	-	-	-	-

Relative Compaction & Moisture

Moisture Variation (%)	1.5% Drier than OMC	-	-	-	-
Moisture Ratio (%)	84.5	-	-	-	-
Density Ratio (%)	97.0	-	-	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.2	6	97.85	1.19	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 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), T100(AS1289.1.2.1, Cl 6.4b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 26/10/2020



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: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 1

Client:	See Civil Pty Ltd	Report No:	38
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	28/10/2020
Project:	Flagstone City - Stage 2 Bulk Earthworks	Project No:	664
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:	43450	43451	43452	43453	-
Field Test Number:	1	2	3	4	-
Date - Field Tested:	22/10/2020	22/10/2020	22/10/2020	22/10/2020	-
Time - Field Tested:	AM	AM	AM	AM	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Stage 2D/2E	Stage 2D/2E	Stage 2D/2E	Stage 2D/2E	
Location/Chainage/Easting: (m)	E: 34757.22	E: 34765.52	E: 34761.29	E: 34769.18	-
Position/Offset/Northing: (m)	N: 73924.66	N: 73945.08	N: 73958.25	N: 73967.13	-
Level/Layer/R.L.	RL: 55.24	RL: 55.20	RL: 55.58	RL: 55.69	-
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	-

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.06	2.05	2.07	2.16	-
Field Dry Density: (t/m ³)	1.88	1.87	1.91	1.99	-
Retained Oversize (Wet basis): (%)	4% on 19.0mm	4% on 19.0mm	9% on 19.0mm	8% 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: (%)	9.5	9.5	8.5	8.5	-
Adjusted Lab OMC: (%)	11.7	11.5	10.5	10.3	-
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-
Lab Max Converted Wet Density: (t/m ³)	2.13	2.10	2.11	2.15	-
Adjusted Lab Max CWD: (t/m ³)	2.14	2.11	2.13	2.16	-
Compactive Effort:	Standard	Standard	Standard	Standard	-

Relative Compaction & Moisture

Moisture Variation (%)	2.0% Drier than OMC	2.0% Drier than OMC	2% Drier than OMC	2% Drier than OMC	-
Moisture Ratio (%)	81.5	82.0	80.5	81.0	-
Density Ratio (%)	96.0	97.0	97.0	100.0	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.4	4	97.43	1.61	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 - (Dry Density Ratio, Moisture Variation & 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 27/10/2020



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

Accreditation number: 19902

A. Lenkeit

Approved By: A. Lenkeit
 Approved Signatory


ASCT Brisbane South

 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	51
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	19/11/2020
Project:	Flagstone City - Stage 2 Bulk Earthworks	Project No:	664
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:	43905	43906	43907	43908	43909
Field Test Number:	1	2	3	4	5
Date - Field Tested:	11/11/2020	11/11/2020	11/11/2020	11/11/2020	11/11/2020
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Stage 5K	Stage 5K	Stage 5K	Stage 5K	Stage 5K
Location/Chainage/Easting: (m)	E: 34645.87	E: 34608.53	E: 34570.88	E: 34555.35	E: 34563.21
Position/Offset/Northing: (m)	N: 74163.28	N: 74142.34	N: 74121.31	N: 74085.63	N: 74070.75
Level/Layer/R.L.	FL	FL	FL	FL	FL
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.08	2.10	2.18	2.15	2.08
Field Dry Density: (t/m ³)	1.91	1.91	2.01	2.00	1.93
Retained Oversize (Wet basis): (%)	3% on 19.0mm	2% on 19.0mm	3% on 19.0mm	4% on 19.0mm	5% 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	9.5	8.5	8.0	8.0
Adjusted Lab OMC: (%)	10.8	10.9	10.1	9.6	9.7
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	2.08	2.10	2.08	2.06
Adjusted Lab Max CWD: (t/m ³)	2.07	2.09	2.11	2.09	2.08
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	2.0% Drier than OMC	1.5% Drier than OMC	2% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC
Moisture Ratio (%)	84.0	87.0	82.0	83.0	83.5
Density Ratio (%)	100.5	100.5	103.0	103.0	100.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	100.5	6	101.27	1.39	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 - (Dry Density Ratio, Moisture Variation & 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 16/11/2020



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



ASCT Brisbane South
 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	51
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	19/11/2020
Project:	Flagstone City - Stage 2 Bulk Earthworks	Project No:	664
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:	43910	-	-	-	-
Field Test Number:	6	-	-	-	-
Date - Field Tested:	11/11/2020	-	-	-	-
Time - Field Tested:	AM	-	-	-	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Stage 5K	-	-	-	-
Location/Chainage/Easting: (m)	E: 34568.31	-	-	-	-
Position/Offset/Northing: (m)	N: 74052.36	-	-	-	-
Level/Layer/R.L.	FL	-	-	-	-
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	-	-	-	-

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.06	-	-	-	-
Field Dry Density: (t/m ³)	1.90	-	-	-	-
Retained Oversize (Wet basis): (%)	5% on 19.0mm	-	-	-	-
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	-	-	-	-
Field Moisture Content: (%)	8.5	-	-	-	-
Adjusted Lab OMC: (%)	10.2	-	-	-	-
Fraction Tested:	Passing 19.0mm	-	-	-	-
Lab Max Converted Wet Density: (t/m ³)	2.04	-	-	-	-
Adjusted Lab Max CWD: (t/m ³)	2.05	-	-	-	-
Compactive Effort:	Standard	-	-	-	-

Relative Compaction & Moisture

Moisture Variation (%)	1.5% Drier than OMC	-	-	-	-
Moisture Ratio (%)	85.0	-	-	-	-
Density Ratio (%)	100.5	-	-	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	100.5	6	101.27	1.39	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 - (Dry Density Ratio, Moisture Variation & 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 16/11/2020



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: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	52
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	19/11/2020
Project:	Flagstone City - Stage 2 Bulk Earthworks	Project No:	664
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:	43911	43912	43913	43914	43915
Field Test Number:	1	2	3	4	5
Date - Field Tested:	12/11/2020	12/11/2020	12/11/2020	12/11/2020	12/11/2020
Time - Field Tested:	PM	PM	PM	PM	PM
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Stage 2D/2E	Stage 2D/2E	Stage 2D/2E	Stage 2D/2E	Stage 2D/2E
Location/Chainage/Easting: (m)	E: 34756.20	E: 34740.10	E: 34750.65	E: 34745.53	E: 34749.88
Position/Offset/Northing: (m)	N: 73875.26	N: 73892.75	N: 73907.33	N: 73939.31	N: 74010.55
Level/Layer/R.L.	FL	FL	FL	FL	FL
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.11	2.05	2.06	2.12	2.08
Field Dry Density: (t/m ³)	1.93	1.89	1.89	1.95	1.93
Retained Oversize (Wet basis): (%)	4% on 19.0mm	4% on 19.0mm	3% on 19.0mm	3% on 19.0mm	6% 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	8.5	9.0	8.5	8.0
Adjusted Lab OMC: (%)	10.6	10.3	10.5	10.4	9.8
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)	2.05	2.06	2.04	2.08	2.03
Adjusted Lab Max CWD: (t/m ³)	2.07	2.07	2.05	2.08	2.05
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	1.5% Drier than OMC	2.0% Drier than OMC	1.5% Drier than OMC	2% Drier than OMC	1.5% Drier than OMC
Moisture Ratio (%)	84.5	82.0	83.5	82.5	83.5
Density Ratio (%)	102.0	98.5	100.5	101.5	101.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	99.8	6	100.55	1.37	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 - (Dry Density Ratio, Moisture Variation & 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 16/11/2020



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



ASCT Brisbane South
 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	52
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	19/11/2020
Project:	Flagstone City - Stage 2 Bulk Earthworks	Project No:	664
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:	43916	-	-	-	-
Field Test Number:	6	-	-	-	-
Date - Field Tested:	12/11/2020	-	-	-	-
Time - Field Tested:	PM	-	-	-	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Stage 2D/2E	-	-	-	-
Location/Chainage/Easting: (m)	E: 34753.29	-	-	-	-
Position/Offset/Northing: (m)	N: 74057.83	-	-	-	-
Level/Layer/R.L.	FL	-	-	-	-
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	-	-	-	-

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.09	-	-	-	-
Field Dry Density: (t/m ³)	1.93	-	-	-	-
Retained Oversize (Wet basis): (%)	7% on 19.0mm	-	-	-	-
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	-	-	-	-
Field Moisture Content: (%)	8.5	-	-	-	-
Adjusted Lab OMC: (%)	9.9	-	-	-	-
Fraction Tested:	Passing 19.0mm	-	-	-	-
Lab Max Converted Wet Density: (t/m ³)	2.09	-	-	-	-
Adjusted Lab Max CWD: (t/m ³)	2.11	-	-	-	-
Compactive Effort:	Standard	-	-	-	-

Relative Compaction & Moisture

Moisture Variation (%)	1.5% Drier than OMC	-	-	-	-
Moisture Ratio (%)	86.0	-	-	-	-
Density Ratio (%)	99.0	-	-	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	99.8	6	100.55	1.37	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 - (Dry Density Ratio, Moisture Variation & 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 16/11/2020



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: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	53
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	19/11/2020
Project:	Flagstone City - Stage 2 Bulk Earthworks	Project No:	664
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:	43917	43918	43919	43920	43921
Field Test Number:	1	2	3	4	5
Date - Field Tested:	13/11/2020	13/11/2020	13/11/2020	13/11/2020	13/11/2020
Time - Field Tested:	PM	PM	PM	PM	PM
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Stage 2D/2E	Stage 2D/2E	Stage 2D/2E	Stage 2D/2E	Stage 2D/2E
Location/Chainage/Easting: (m)	E: 34744.83	E: 34751.04	E: 34745.96	E: 34752.45	E: 34749.27
Position/Offset/Northing: (m)	N: 73883.25	N: 73898.46	N: 73911.37	N: 73921.24	N: 73955.19
Level/Layer/R.L.	FL	FL	FL	FL	FL
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.08	2.14	2.12	2.09	2.14
Field Dry Density: (t/m ³)	1.92	1.98	1.94	1.92	1.96
Retained Oversize (Wet basis): (%)	3% on 19.0mm	3% on 19.0mm	6% on 19.0mm	6% 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: (%)	8.5	8.0	9.0	8.5	9.0
Adjusted Lab OMC: (%)	10.0	9.5	10.6	10.6	10.4
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)	2.08	2.10	2.12	2.09	2.13
Adjusted Lab Max CWD: (t/m ³)	2.09	2.11	2.14	2.11	2.14
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	2.0% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	2% Drier than OMC	1.5% Drier than OMC
Moisture Ratio (%)	82.5	84.0	85.5	82.5	84.5
Density Ratio (%)	99.5	101.5	99.0	99.0	100.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	99.2	6	99.72	0.95	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 - (Dry Density Ratio, Moisture Variation & 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 16/11/2020



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



ASCT Brisbane South
 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	53
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	19/11/2020
Project:	Flagstone City - Stage 2 Bulk Earthworks	Project No:	664
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:	43922	-	-	-	-
Field Test Number:	6	-	-	-	-
Date - Field Tested:	13/11/2020	-	-	-	-
Time - Field Tested:	PM	-	-	-	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Stage 2D/2E	-	-	-	-
Location/Chainage/Easting: (m)	E: 34755.68	-	-	-	-
Position/Offset/Northing: (m)	N: 73982.63	-	-	-	-
Level/Layer/R.L.	FL	-	-	-	-
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	-	-	-	-

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.10	-	-	-	-
Field Dry Density: (t/m ³)	1.94	-	-	-	-
Retained Oversize (Wet basis): (%)	6% on 19.0mm	-	-	-	-
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	-	-	-	-
Field Moisture Content: (%)	8.5	-	-	-	-
Adjusted Lab OMC: (%)	10.2	-	-	-	-
Fraction Tested:	Passing 19.0mm	-	-	-	-
Lab Max Converted Wet Density: (t/m ³)	2.08	-	-	-	-
Adjusted Lab Max CWD: (t/m ³)	2.10	-	-	-	-
Compactive Effort:	Standard	-	-	-	-

Relative Compaction & Moisture

Moisture Variation (%)	2% Drier than OMC	-	-	-	-
Moisture Ratio (%)	82.0	-	-	-	-
Density Ratio (%)	100.0	-	-	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	99.2	6	99.72	0.95	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 - (Dry Density Ratio, Moisture Variation & 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 16/11/2020



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

Accreditation number: 19902



**AUSTRALIAN
SOIL AND
CONCRETE
TESTING**

ASCT Brisbane South

Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q. 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

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: Flagstone City - Stage 2 Bulk Earthworks
 Component: Level 1 Fill
 Lot Number: -

Report No: 75
 Report Date: 19/01/2021
 Project No: 664
 Test Request: -
 ITP/PCP:

Sample Information & Location

Sample Number:	45083	45084	45085	45086	45087
Field Test Number:	1	2	3	4	5
Date - Field Tested:	14/01/2021	14/01/2021	14/01/2021	14/01/2021	14/01/2021
Time - Field Tested:	AM	AM	AM	AM	PM
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 972	Lot 977	Lot 978	Lot 1048	Lot 979
Location/Chainage/Easting: (m)	9m off Front Boundary	11m off Front Boundary	5m off Front Boundary	9m off Front Boundary	8m off Front Boundary
Position/Offset/Northing: (m)	6m off Left Boundary	2m off Left Boundary	6m off Right Boundary	7m off Right Boundary	3m off Left Boundary
Level/Layer/R.L.	FL	FL	FL	FL	FL
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.05	2.08	1.99	2.03	2.15
Field Dry Density: (t/m ³)	1.88	1.89	1.81	1.84	1.95
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	10.0	10.5	10.0	10.5
Adjusted Lab OMC: (%)	10.9	10.3	12.3	11.9	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)	2.10	2.16	2.06	2.06	2.10
Adjusted Lab Max CWD: (t/m ³)	2.10	2.16	2.06	2.06	2.10
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	2.0% Drier than OMC	0.5% Drier than OMC	2% Drier than OMC	2% Drier than OMC	1.5% Drier than OMC
Moisture Ratio (%)	83.0	97.0	84.0	83.5	87.0
Density Ratio (%)	97.5	96.0	96.5	98.5	102.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.8	8	99.04	2.81	0.453
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 - (Dry Density Ratio, Moisture Variation & 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 14/01/2021 to 15/01/2021



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



ASCT Brisbane South
 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	75
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	19/01/2021
Project:	Flagstone City - Stage 2 Bulk Earthworks	Project No:	664
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

	45088	45089	45090	-	-
Sample Number:	6	7	8	-	-
Field Test Number:	14/01/2021	14/01/2021	14/01/2021	-	-
Date - Field Tested:	PM	PM	PM	-	-
Time - Field Tested:	On Site - General Fill				
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 980	Lot 981	Lot 960	-	-
Location/Chainage/Easting:	(m) 14m off Front Boundary	5m off Front Boundary	9m off Front Boundary	-	-
Position/Offset/Northing:	(m) 6m off Left Boundary	4m off Left Boundary	5m off Right Boundary	-	-
Level/Layer/R.L.	FL	FL	FL	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.16	2.07	2.11	-	-
Field Dry Density:	(t/m ³)	1.93	1.89	1.89	-	-
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:	(%)	12.0	9.5	11.5	-	-
Adjusted Lab OMC:	(%)	12.1	11.7	11.8	-	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density:	(t/m ³)	2.09	2.13	2.09	-	-
Adjusted Lab Max CWD:	(t/m ³)	2.09	2.13	2.09	-	-
Compactive Effort:		Standard	Standard	Standard	-	-

Relative Compaction & Moisture

Moisture Variation	(%)	At OMC	2% Drier than OMC	0.5% Drier than OMC	-	-
Moisture Ratio	(%)	98.0	82.0	96.0	-	-
Density Ratio	(%)	103.5	97.5	101.0	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.8	8	99.04	2.81	0.453
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 - (Dry Density Ratio, Moisture Variation & 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 14/01/2021 to 15/01/2021



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: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 1

Client:	See Civil Pty Ltd	Report No:	76
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	19/01/2021
Project:	Flagstone City - Stage 2 Bulk Earthworks	Project No:	664
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	45151	45152	45153	45154	45155
Field Test Number:	1	2	3	4	5
Date - Field Tested:	15/01/2021	15/01/2021	15/01/2021	15/01/2021	15/01/2021
Time - Field Tested:	PM	PM	PM	PM	PM
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 982	Lot 971	Lot 970	Lot 969	Lot 968
Location/Chainage/Easting: (m)	10m off Front Boundary	9m off Front Boundary	12m off Front Boundary	11m off Front Boundary	7m off Front Boundary
Position/Offset/Northing: (m)	3m off Right Boundary	4m off Left Boundary	9m off Left Boundary	4m off Right Boundary	7m off Left Boundary
Level/Layer/R.L.	FL	FL	FL	FL	FL
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.11	2.00	2.07	2.17	2.04
Field Dry Density: (t/m ³)	1.91	1.80	1.87	1.98	1.84
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: (%)	10.5	11.0	11.0	9.5	11.0
Adjusted Lab OMC: (%)	12.2	12.5	12.6	11.6	12.6
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)	2.11	2.07	2.10	2.11	2.05
Adjusted Lab Max CWD: (t/m ³)	2.11	2.07	2.10	2.11	2.05
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	2% Drier than OMC	2% Drier than OMC
Moisture Ratio (%)	87.5	87.5	87.0	83.0	86.0
Density Ratio (%)	100.0	96.5	99.0	103.0	99.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.2	5	99.56	2.33	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 - (Dry Density Ratio, Moisture Variation & 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 15/01/2021 to 18/01/2021

	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: 4/31 Tradelink Road Hillcrest Q. 4118
 Telephone: 0437 776 582
 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:	77
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	19/01/2021
Project:	Flagstone City - Stage 2 Bulk Earthworks	Project No:	664
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:	45156	45157	45158	45159	45160
Field Test Number:	1	2	3	4	5
Date - Field Tested:	18/01/2021	18/01/2021	18/01/2021	18/01/2021	18/01/2021
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 983	Lot 966	Lot 967	Lot 958	Lot 959
Location/Chainage/Easting:	(m) 10m off Front Boundary	9m off Front Boundary	12m off Front Boundary	11m off Front Boundary	7m off Front Boundary
Position/Offset/Northing:	(m) 3m off Right Boundary	4m off Left Boundary	9m off Left Boundary	4m off Right Boundary	7m off Left Boundary
Level/Layer/R.L.	FL	FL	FL	FL	FL
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.03	2.07	2.11	2.08	2.16
Field Dry Density:	(t/m ³)	1.86	1.88	1.89	1.86	1.94
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:	(%)	8.5	10.0	11.0	12.0	11.0
Adjusted Lab OMC:	(%)	10.6	11.3	12.1	12.2	11.7
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)	2.07	2.08	2.12	2.12	2.11
Adjusted Lab Max CWD:	(t/m ³)	2.07	2.08	2.12	2.12	2.11
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Drier than OMC	1.5% Drier than OMC	1% Drier than OMC	At OMC	1% Drier than OMC
Moisture Ratio	(%)	81.5	87.5	92.5	99.0	93.5
Density Ratio	(%)	98.0	99.5	99.5	98.0	102.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.5	5	99.46	1.76	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 - (Dry Density Ratio, Moisture Variation & 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 18/01/2021 to 19/01/2021



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



ASCT Brisbane South
 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	78
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	5/02/2021
Project:	Flagstone City - Stage 2 Bulk Earthworks	Project No:	664
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location

Sample Number:	45668	45669	45670	45671	45672
Field Test Number:	1	2	3	4	5
Date - Field Tested:	2/02/2021	2/02/2021	2/02/2021	2/02/2021	2/02/2021
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 902	Lot 903	Lot 904	Lot 905	Lot 906
Location/Chainage/Easting: (m)	5m off Front Boundary	2m off Front Boundary	4m off Front Boundary	3m off Front Boundary	6m off Front Boundary
Position/Offset/Northing: (m)	9m off Left Boundary	8m off Left Boundary	6m off Right Boundary	9m off Left Boundary	6m off Right Boundary
Level/Layer/R.L.	FL	FL	FL	FL	FL
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.12	2.15	2.08	2.15	2.10
Field Dry Density: (t/m ³)	1.93	1.92	1.89	1.97	1.90
Retained Oversize (Wet basis): (%)	2% on 19.0mm	2% on 19.0mm	4% 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	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	9.5	11.5	10.0	9.0	10.5
Adjusted Lab OMC: (%)	11.1	13.7	11.4	10.5	12.0
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	2.11	2.09	2.14	2.10
Adjusted Lab Max CWD: (t/m ³)	2.13	2.12	2.10	2.15	2.11
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	1.5% Drier than OMC	2.0% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC
Moisture Ratio (%)	86.0	85.5	87.5	86.5	87.0
Density Ratio (%)	99.5	101.5	99.0	100.5	99.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	99.4	10	100.02	1.47	0.405
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 - (Dry Density Ratio, Moisture Variation & 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 03/02/2021



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



ASCT Brisbane South
 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf)		Page:	2 of 2
Client:	See Civil Pty Ltd	Report No:	78
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	5/02/2021
Project:	Flagstone City - Stage 2 Bulk Earthworks	Project No:	664
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	

Sample Information & Location					
	45673	45674	45675	45676	45677
Sample Number:	6	7	8	9	10
Field Test Number:	2/02/2021	2/02/2021	2/02/2021	2/02/2021	2/02/2021
Date - Field Tested:	AM	AM	AM	AM	AM
Time - Field Tested:	On Site - General Fill				
Material Source / Type:					
Remarks / Notes:					
Control Line:	Lot 907	Lot 998	Lot 964	Lot 963	Lot 962
Location/Chainage/Easting:	(m) 11m off Back Boundary	12m off Back Boundary	3m off Front Boundary	5m off Front Boundary	4m off Front Boundary
Position/Offset/Northing:	(m) 3m off Left Boundary	4m off Left Boundary	6m off Right Boundary	9m off Right Boundary	4m off Right Boundary
Level/Layer/R.L.	FL	FL	FL	FL	FL
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results						
Field Wet Density:	(t/m ³)	2.16	2.01	2.11	2.06	2.15
Field Dry Density:	(t/m ³)	1.98	1.80	1.93	1.89	1.94
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	2% on 19.0mm	3% 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	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	9.5	12.0	9.5	9.0	11.0
Adjusted Lab OMC:	(%)	11.0	13.5	11.1	10.4	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)	2.14	2.07	2.06	2.08	2.11
Adjusted Lab Max CWD:	(t/m ³)	2.14	2.08	2.07	2.08	2.12
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	2% Drier than OMC
Moisture Ratio	(%)	86.0	87.5	84.0	84.5	85.0
Density Ratio	(%)	101.0	97.0	102.0	99.0	101.5

<i>Specified Density Ratio</i>		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
<i>Minimum (%)</i>	95	99.4	10	100.02	1.47	0.405
<i>Maximum (%)</i>		-	-	-	-	-
<i>Specified Moisture Ratio</i>		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
<i>Minimum (%)</i>		-	-	-	-	-
<i>Maximum (%)</i>		-	-	-	-	-

Test Methods Used.
 AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & 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 03/02/2021

	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: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	79
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	8/02/2021
Project:	Flagstone City - Stage 2 Bulk Earthworks	Project No:	664
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	45678	45679	45680	45681	45682
Field Test Number:	1	2	3	4	5
Date - Field Tested:	2/02/2021	2/02/2021	2/02/2021	2/02/2021	2/02/2021
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 961	Lot 957	Lot 1030	Lot 1029	Lot 1028
Location/Chainage/Easting: (m)	3m off Front Boundary	6m off Front Boundary	11m off Back Boundary	14m off Back Boundary	9m off Back Boundary
Position/Offset/Northing: (m)	7m off Right Boundary	8m off Left Boundary	4m off Left Boundary	7m off Left Boundary	2m off Left Boundary
Level/Layer/R.L.	FL	FL	FL	FL	FL
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.00	2.01	2.15	2.12	2.02
Field Dry Density: (t/m ³)	1.80	1.83	1.97	1.92	1.84
Retained Oversize (Wet basis): (%)	3% on 19.0mm	2% on 19.0mm	3% on 19.0mm	4% 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: (%)	11.0	10.0	9.5	10.5	9.5
Adjusted Lab OMC: (%)	12.5	12.0	11.1	12.5	11.8
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)	2.05	2.06	2.11	2.08	2.10
Adjusted Lab Max CWD: (t/m ³)	2.06	2.06	2.12	2.09	2.11
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	1.5% Drier than OMC	2.0% Drier than OMC	1.5% Drier than OMC	2% Drier than OMC	2% Drier than OMC
Moisture Ratio (%)	88.5	84.5	87.0	85.0	82.5
Density Ratio (%)	97.0	97.5	102.0	101.5	95.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.1	10	97.96	2.20	0.405
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 - (Dry Density Ratio, Moisture Variation & 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 03/02/2021 to 04/02/2021



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



ASCT Brisbane South
 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 73 193 500 470

Compaction Control Test Report (Nuclear Gauge & Hilf)		Page:	2 of 2
Client:	See Civil Pty Ltd	Report No:	79
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	8/02/2021
Project:	Flagstone City - Stage 2 Bulk Earthworks	Project No:	664
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location					
	45683	45684	45685	45686	45687
Sample Number:	6	7	8	9	10
Field Test Number:	2/02/2021	2/02/2021	2/02/2021	2/02/2021	2/02/2021
Date - Field Tested:	AM	AM	AM	AM	AM
Time - Field Tested:	On Site - General Fill				
Material Source / Type:					
Remarks / Notes:					
Control Line:	Lot 1027	Lot 1026	Lot 1025	Lot 1024	Lot 1023
Location/Chainage/Easting:	(m) 5m off Front Boundary	3m off Front Boundary	13m off Back Boundary	2m off Front Boundary	6m off Front Boundary
Position/Offset/Northing:	(m) 5m off Right Boundary	6m off Left Boundary	8m off Right Boundary	9m off Right Boundary	7m off Left Boundary
Level/Layer/R.L.	FL	FL	FL	FL	FL
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results					
Field Wet Density:	(t/m ³) 2.17	2.16	2.11	2.09	2.00
Field Dry Density:	(t/m ³) 1.96	1.98	1.92	1.90	1.82
Retained Oversize (Wet basis):	(%) 2% on 19.0mm	1% on 19.0mm	3% 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:	(%) 10.5	8.5	10.0	10.0	10.0
Adjusted Lab OMC:	(%) 12.4	10.4	11.5	11.7	12.1
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) 2.19	2.19	2.16	2.16	2.08
Adjusted Lab Max CWD:	(t/m ³) 2.20	2.19	2.17	2.17	2.09
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture					
Moisture Variation	(%) 1.5% Drier than OMC	1.5% Drier than OMC	2% Drier than OMC	1.5% Drier than OMC	2% Drier than OMC
Moisture Ratio	(%) 86.5	84.5	85.0	87.5	81.0
Density Ratio	(%) 99.0	98.5	97.5	96.5	95.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.1	10	97.96	2.20	0.405
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 - (Dry Density Ratio, Moisture Variation & 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 03/02/2021 to 04/02/2021

	Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.
	Accreditation number: 19902

Appendix C

Individual Lot Reports

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 902

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 902 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **902** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1.**

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 903

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 903 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **903** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1.**

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 904

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 904 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **904** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1**.

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 905

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 905 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **905** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1.**

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 956

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 956 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **956** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1.**

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 957

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 957 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **957** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1**.

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 958

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 958 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **958** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1**.

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 959

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 959 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **959** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1**.

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 960

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 960 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **960** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1.**

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 965

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 965 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **965** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1**.

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 966

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 966 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **966** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1.**

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 967

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 967 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **967** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1.**

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 968

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 968 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **968** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1.**

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 969

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 969 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **969** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1.**

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 970

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 970 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **970** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1.**

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 971

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 971 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **971** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1.**

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 972

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 972 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **972** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1.**

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 974

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 974 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **974** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1.**

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 975

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 975 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **975** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1.**

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 976

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 976 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **976** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1**.

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 977

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 977 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **977** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1.**

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 978

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 978 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **978** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1**.

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 979

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 979 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **979** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1**.

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 980

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 980 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **980** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1**.

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 981

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 981 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **981** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1.**

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 982

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 982 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **982** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1**.

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 983

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 983 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **983** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1**.

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 1004

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 1004 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **1004** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1.**

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 1018

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 1018 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **1018** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1**.

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 1019

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 1019 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **1019** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1.**

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 1020

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 1020 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **1020** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1.**

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 1021

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 1021 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **1021** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1.**

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 1022

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 1022 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **1022** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1**.

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 1023

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 1023 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **1023** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1**.

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 1024

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 1024 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **1024** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1.**

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 1027

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 1027 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **1027** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1**.

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 1028

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 1028 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **1028** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1**.

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 1029

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 1029 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **1029** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1**.

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 1030

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 1030 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **1030** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1**.

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 1031

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 1031 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **1031** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1**.

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 1032

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 1032 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **1032** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1**.

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 1033

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 1033 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **1033** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1**.

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 1034

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 1034 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **1034** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1**.

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 1035

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 1035 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **1035** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1**.

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 1036

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 1036 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **1036** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1**.

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 1037

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 1037 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **1037** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1.**

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 1038

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 1038 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **1038** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1.**

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 1039

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 1039 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **1039** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1**.

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 1040

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 1040 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **1040** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1.**

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 1041

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 1041 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **1041** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1.**

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 1042

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 1042 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **1042** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1**.

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 1043

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 1043 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **1043** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1**.

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 1044

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 1044 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **1044** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1.**

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 1045

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 1045 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **1045** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1**.

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 1046

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 1046 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **1046** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1**.

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

24th May 2021

Ref No: 854_Flagstone City Stage 2D & 2E_Level 1_Lot 1048

SEE Civil Pty Ltd
108 Siganto Drive
Helensvale QLD 4210

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 1048 – FLAGSTONE CITY STAGE 2D & 2E

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*'.

Earthworks were conducted on the site between 15/10/2020 and 12/03/2021. We have issued this letter to cover any filling placed on the lot and any re-compaction of loosened materials across any cutting area of the allotment.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **1048** 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 previously conducted is included in our report Ref No: **854_Flagstone City Stage 2D & 2E_Level 1**.

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

Yours faithfully



Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au