

# Mclvor Forest Estate Stage 18, Junortoun

## Earthworks Supervision Report for Maine Civil

Report 17C 0301  
April, 2017

# Mclvor Forest Estate Stage 18 Junortoun

## Earthworks Supervision Report

for  
Maine Civil

### Revision

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17C 0301	28/4/17	SEH

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Site Plan  
Test Reports

## **1 INTRODUCTION**

Maine Civil commissioned Geotechnical Testing Services (GTS) to undertake Level 1 Supervision and testing (AS3798-2007) for the earthworks at Mclvor Forest Estate Stage 18, Junortoun.

Level 1 Testing was generally performed in line with AS3798-2007 "Guidelines on Earthworks for Commercial and Residential Development" and provides inspection of the construction of controlled fill and compaction testing in accordance with AS1289 "Methods of Testing Soils for Engineering Purposes". The Level 1 testing was undertaken by Geotechnicians with supervision provided by a Geotechnical Engineer from GTS.

## **2 SCOPE OF WORKS**

### **2.1 AREA OF WORK**

Geotechnical Testing Services provided Level 1 inspection and testing of the engineered fill placed across Lots 46 to 53. It is noted that Lots 46 and 47 are part of a future stage and Lot 53 is part of Stage 14B.

The depth of fill across the site varied from none to around 0.8 metres with the approximate location shown on the attached site plan.

### **2.2 PLACEMENT SPECIFICATION**

Whilst there was no earthworks specification compiled for this project, the placement of the fill and associated works generally followed the recommendations outlined in AS3798-2007 "Guidelines for Earthworks for Commercial and Residential Developments" and the construction specification.

In summary, the earthworks comply with the following:

- The layers for residential lots are to be compacted to at least 95% of the density ratio in accordance with AS1289 5.1.1 (or 5.7.1), based on Standard compaction.

In accordance with Table 8.1 of AS3798-2007, the site would be considered small scale (less than 1500m<sup>2</sup>) and therefore a minimum of 1 test per residential lot per layer is required.

### 3 INSPECTION AND TESTING

Inspection of the excavated base was conducted by a Senior Geotechnical Engineer and it was observed that the unsuitable material (vegetation, top soil/silt) had been removed with the base consisting of a Silty Sandy Clay material of good strength.

Level 1 inspection and testing was undertaken by a geotechnician from GTS who nominated the timing and location of the in-situ density tests. The approximate location of each test is recorded on the test reports and attached fill plan.

Laboratory compaction testing was undertaken on a one to one basis at our Bendigo laboratory. A summary of the results of the compaction control testing is presented in a table below with the full NATA endorsed test reports included in the Appendix.

### 4 SUMMARY OF TEST RESULTS

A summary of the test results is included in the following table with full NATA accredited reports included in the Appendix.

Project No.	Report No.	Test Date.	Location.	Reduced Level (mm)	Moisture Variation %O.M.C	Hilf Density Ratio %
1	17B 0056A	31/1/17	Lot 52	500	1.5 dry	95.5
2	17B 0056B	31/1/17	Lot 51	400	1.0 dry	98.5
3	17B 0056C	31/1/17	Lot 50	300	1.5 dry	96.5
4	17B 0074A	3/2/17	Lot 52	100	0.5 wet	99.5
5	17B 0074B	3/2/17	Lot 51	FSL	2.0 dry	97.5
6	17B 0074C	3/2/17	Lot 50	FSL	1.0 wet	98.0
7	17B 0074D	3/2/17	Lot 49	FSL	0.0	95.5
8	17B 0138A	20/2/17	Lot 53	FSL	0.5 dry	99.5
9	17B 0138B	20/2/17	Lot 52	FSL	2.5 dry	102.5
10	17B 0138C	20/2/17	Lot 51	FSL	3.0 dry	107.0
11	17B 0138D	20/2/17	Lot 50	FSL	4.0 dry	101.5
12	17B 0138E	20/2/17	Lot 49	FSL	2.5 dry	103.0
13	17B 0138F	20/2/17	Lot 48	FSL	2.5 dry	100.5
14	17B 0138G	20/2/17	Lot 47	FSL	1.5 dry	102.0
15	17B 0138H	20/2/17	Lot 46	FSL	2.5 dry	105.0

## 5 STATEMENT OF COMPLIANCE

GTS personnel have provided Level 1 inspection and testing services during the placement of material for the filling of Lots 46 to 53. The placement of fill and construction techniques adopted was observed throughout the project.

Based on observations made by GTS personnel and the results of field and laboratory tests, we consider that the fill has been placed and compacted and is considered to be engineered or controlled fill. Therefore, subject to residential site classifications, the controlled fill material is deemed a suitable founding medium for future residential buildings. It is noted that top soil material may be spread across the sites following completion of these earthworks and that this top soil material is not considered controlled fill.



**Shane Hampton** (BE (Hons))  
**Senior Geotechnical Engineer**

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# APPENDIX

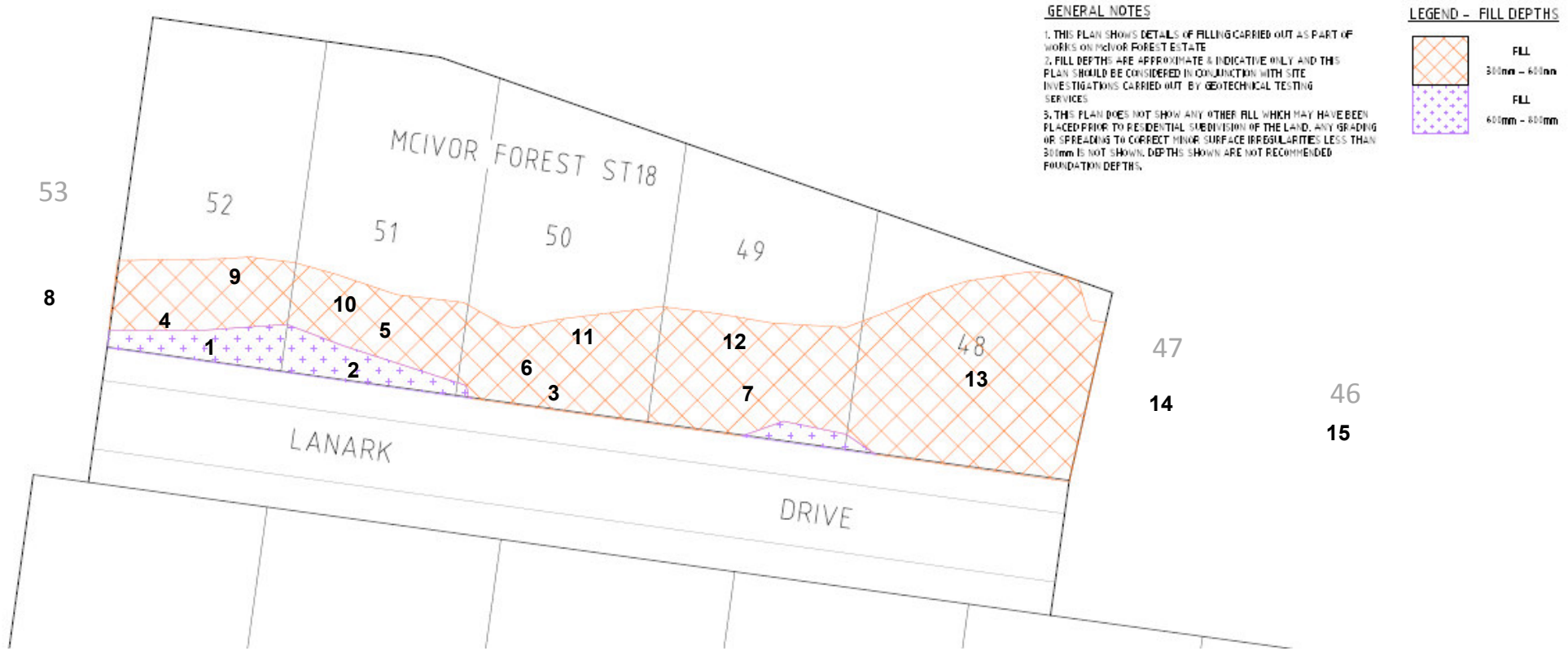


Fig 1: Site Plan



Client: Mainecivil 9 Merrifield Street CASTLEMAINE VICTORIA 3450	Report N <sup>o</sup> :	17B0056
	Revision N <sup>o</sup> :	REV 0
	Sheet:	1 of 2
	Date of Report:	1/02/2017

Project:	Mc Ivor Forest Stage 18, Junortoun					
Location:	House Blocks					
Test Request No / Lot No:	*					
Layer Thickness: (mm)	300					
Depth Below FSL/CSL:	500 400 300					
Compaction Type:	Standard					
Date Sampled:	31/01/2017					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material Description:	17B0056	/A	Gravelly Silty Clay, Brown			
	17B0056	/B	Gravelly Silty Clay, Brown			
	17B0056	/C	Gravelly Silty Clay, Brown			
Material Stabilised:	No	If Stabilised Time from Stabilisation to Lab Test:				*
Test Number:	17B0056A	17B0056B	17B0056C	*	*	*
Hilf Density Ratio (%):	<b>95.5</b>	<b>98.5</b>	<b>96.5</b>	*	*	*

As Per: AS1289 5.7.1 5.8.1

Approved Signatory:



C.J. Milne

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**Bendigo: Corporate Site #835**  
**La Trobe University Campus, Edwards Rd, Bendigo, 3550**  
**PO Box 13, Strathdale, 3550 Ph(03) 5441 4881, Fax (03) 5441 5089**

Laboratory accreditation number 19506

**Offices:** Bendigo, Echuca **Web:** www.geotestsouthern.com.au **Email:** info@geotestsouthern.com.au **ABN:** 18 169 924 109 **ACN:** 169 924 109

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Client: Mainecivil 9 Merrifield Street CASTLEMAINE VICTORIA 3450	Report N <sup>o</sup> :	17B0056
	Revision N <sup>o</sup> :	REV 0
	Sheet:	2 of 2
	Date of Report:	1/02/2017

Test Number:	17B0056A	17B0056B	17B0056C	*	*	*	
Project Test Number:	*	*	*	*	*	*	
Time of Test:	2.30pm	2.35pm	2.45pm	*	*	*	
Probe Depth: (mm)	275	275	275	*	*	*	
Chainage:	Lot 52	Lot 51	Lot 50	*	*	*	
Reduced Level: (mm)	500.0	400.0	300.0	*	*	*	
Offset / Centre Line:	-	-	-	*	*	*	
#Eastings:	55026	2522	2524	2521	*	*	*
#Northings:	593	6104	6080	6059	*	*	*
Percentage Oversize Wet:	0.0	0.0	0.0	*	*	*	
Oversize Sieve Size: (mm)	19	19	19	*	*	*	
Field Wet Density: t/m <sup>3</sup>	1.99	2.05	2.01	*	*	*	
Peak Conv. Wet Density: t/m <sup>3</sup>	2.08	2.09	2.08	*	*	*	
Adj. Peak Conv. Wet Density: t/m <sup>3</sup>	*	*	*	*	*	*	
Moisture Variation: % (Wet/Dry)	1.5Dry	1.0Dry	1.5Dry	*	*	*	
Adj. Moist. Variation: % (Wet/Dry)	*	*	*	*	*	*	
Moisture Content: %	*	*	*	*	*	*	
<b>HILF DENSITY RATIO (%):</b>	<b>95.5</b>	<b>98.5</b>	<b>96.5</b>	*	*	*	

#Map Datum AUS84

As Per: AS1289                      5.7.1                      5.8.1

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C.J. Milne

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Client: Mainecivil 9 Merrifield Street CASTLEMAINE VICTORIA 3450	Report N <sup>o</sup> :	17B0074
	Revision N <sup>o</sup> :	REV 0
	Sheet:	1 of 2
	Date of Report:	6/02/2017

Project:	Mclvor Forest Estate Stage 18					
Location:	House Lots					
Test Request No / Lot No:	*					
Layer Thickness: (mm)	300mm					
Depth Below FSL/CSL:	100mm & FSL					
Compaction Type:	Standard					
Date Sampled:	3/02/2017					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material Description:	17B0074	/A	Gravelly Silty Clay Brown			
	17B0074	/B	Gravelly Silty Clay Brown			
	17B0074	/C	Gravelly Silty Clay Brown			
	17B0074	/D	Gravelly Silty Clay Brown			
Material Stabilised:	No	If Stabilised Time from Stabilisation to Lab Test:				*
Test Number:	17B0074A	17B0074B	17B0074C	17B0074D	*	*
Hilf Density Ratio (%):	99.5	97.5	98.0	95.5	*	*

As Per: AS1289 5.7.1 5.8.1

Approved Signatory:   
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 B.P.Mott

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	Revision N <sup>o</sup> :	REV 0
	Sheet:	2 of 2
	Date of Report:	6/02/2017

Test Number:	17B0074A	17B0074B	17B0074C	17B0074D	*	*	
Project Test Number:	*	*	*	*	*	*	
Time of Test:	11.05am	11.10am	11.15am	11.20am	*	*	
Probe Depth: (mm)	275	275	275	275	*	*	
Chainage:	Lot 52	Lot 51	Lot 50	Lot 49	*	*	
Reduced Level: (mm)	-100	FSL	FSL	FSL	*	*	
Offset / Centre Line:	Front of Lot	Front of Lot	Front of Lot	Front of Lot	*	*	
#Eastings:	55026	2526	2523	2520	2516	*	*
#Northings:	592	6095	6079	6057	6027	*	*
Percentage Oversize Wet:	0.0	0.0	0.0	0.0	*	*	
Oversize Sieve Size: (mm)	19	19	19	19	*	*	
Field Wet Density: t/m <sup>3</sup>	2.12	2.02	2.09	2.00	*	*	
Peak Conv. Wet Density: t/m <sup>3</sup>	2.13	2.08	2.14	2.10	*	*	
Adj. Peak Conv. Wet Density: t/m <sup>3</sup>	*	*	*	*	*	*	
Moisture Variation: % (Wet/Dry)	0.5Wet	2.0Dry	1.0Wet	0.0Wet	*	*	
Adj. Moist. Variation: % (Wet/Dry)	*	*	*	*	*	*	
Moisture Content: %	*	*	*	*	*	*	
<b>HILF DENSITY RATIO (%):</b>	<b>99.5</b>	<b>97.5</b>	<b>98.0</b>	<b>95.5</b>	*	*	

#Map Datum AUS84

As Per: AS1289                      5.7.1                      5.8.1

Approved Signatory:



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Print Date: 6/02/2017. The controlled version of this document is on the Sandhurst Geotech P/L computer. This document is only controlled for the date shown on the bottom of the page.

Client: Mainecivil 9 Merrifield Street CASTLEMAINE VICTORIA 3450	Report N <sup>o</sup> :	17B0138
	Revision N <sup>o</sup> :	REV 0
	Sheet:	1 of 4
	Date of Report:	24/02/2017

Project:	Mclvor Forest Estate, Junortoun					
Location:	House Blocks - Stage 14B & Stage 18					
Test Request No / Lot No:	*					
Layer Thickness: (mm)	300mm					
Depth Below FSL/CSL:	FSL					
Compaction Type:	Standard					
Date Sampled:	20/02/2017					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material Description:	17B0138	/A	Yellow Siltstone Gravel			
	17B0138	/B	Yellow Siltstone Gravel			
	17B0138	/C	Yellow Siltstone Gravel			
	17B0138	/D	Yellow Siltstone Gravel			
	17B0138	/E	Yellow Siltstone Gravel			
	17B0138	/F	Yellow Siltstone Gravel			
Material Stabilised:	No	If Stabilised Time from				*
		Stabilisation to Lab Test:				
Test Number:	17B0138A	17B0138B	17B0138C	17B0138D	17B0138E	17B0138F
Hilf Density Ratio (%):	<b>99.5</b>	<b>102.5</b>	<b>107.0</b>	<b>101.5</b>	<b>103.0</b>	<b>100.5</b>

As Per: AS1289 5.7.1 5.8.1

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	Revision N <sup>o</sup> :	REV 0
	Sheet:	2 of 4
	Date of Report:	24/02/2017

Test Number:	17B0138A	17B0138B	17B0138C	17B0138D	17B0138E	17B0138F
Project Test Number:	*	*	*	*	*	*
Time of Test:	11.05am	11.10am	11.15am	11.20am	11.25am	11.30am
Probe Depth: (mm)	275	275	275	275	275	275
Chainage:	Lot 53	Lot 52	Lot 51	Lot 50	Lot 49	Lot 48
Reduced Level: (mm)	FSL	FSL	FSL	FSL	FSL	FSL
Offset / Centre Line:	Centre	Centre	Centre	Centre	Centre	Centre
#Eastings:	55H26	2545	2530	2527	2532	2531
#Northings:	592	6122	6096	6069	6061	6034
Percentage Oversize Wet:	0.0	0.0	0.0	0.0	0.0	0.0
Oversize Sieve Size: (mm)	19	19	19	19	19	19
Field Wet Density: t/m <sup>3</sup>	2.09	2.09	2.17	2.07	2.16	2.12
Peak Conv. Wet Density: t/m <sup>3</sup>	2.10	2.04	2.03	2.04	2.10	2.11
Adj. Peak Conv. Wet Density: t/m <sup>3</sup>	*	*	*	*	*	*
Moisture Variation: % (Wet/Dry)	0.5Dry	2.5Dry	3.0Dry	4.0Dry	2.5Dry	2.5Dry
Adj. Moist. Variation: % (Wet/Dry)	*	*	*	*	*	*
Moisture Content: %	*	*	*	*	*	*
<b>HILF DENSITY RATIO (%):</b>	<b>99.5</b>	<b>102.5</b>	<b>107.0</b>	<b>101.5</b>	<b>103.0</b>	<b>100.5</b>

#Map Datum AUS84

As Per: AS1289                      5.7.1                      5.8.1

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	Revision N <sup>o</sup> :	REV 0
	Sheet:	3 of 4
	Date of Report:	24/02/2017

Project:	Mclvor Forest Estate, Junortoun					
Location:	House Blocks - Future Stage					
Test Request No / Lot No:	*					
Layer Thickness: (mm)	300mm					
Depth Below FSL/CSL:	FSL					
Compaction Type:	Standard					
Date Sampled:	20/02/2017					
Sampling Method:	AS1289.1.2.1 part 6.4b					
Material Description:	17B0138	/G	Yellow Siltstone Gravel			
	17B0138	/H	Yellow Siltstone Gravel			
Material Stabilised:	No	If Stabilised Time from Stabilisation to Lab Test:				*
Test Number:	17B0138G	17B0138H	*	*	*	*
Hilf Density Ratio (%):	<b>102.0</b>	<b>105.0</b>	*	*	*	*

As Per: AS1289 5.7.1 5.8.1

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	Revision N <sup>o</sup> :	REV 0
	Sheet:	4 of 4
	Date of Report:	24/02/2017

Test Number:	17B0138G	17B0138H	*	*	*	*
Project Test Number:	*	*	*	*	*	*
Time of Test:	11.40am	11.50am	*	*	*	*
Probe Depth: (mm)	275	275	*	*	*	*
Chainage:	Lot 47	Lot 46	*	*	*	*
Reduced Level: (mm)	FSL	FSL	*	*	*	*
Offset / Centre Line:	Centre	Centre	*	*	*	*
#Eastings:	55H26	2513	2532	*	*	*
#Northings:	592	5993	5979	*	*	*
Percentage Oversize Wet:	0.0	0.0	*	*	*	*
Oversize Sieve Size: (mm)	19	19	*	*	*	*
Field Wet Density: t/m <sup>3</sup>	2.07	2.12	*	*	*	*
Peak Conv. Wet Density: t/m <sup>3</sup>	2.03	2.02	*	*	*	*
Adj. Peak Conv. Wet Density: t/m <sup>3</sup>	*	*	*	*	*	*
Moisture Variation: % (Wet/Dry)	1.5Dry	2.5Dry	*	*	*	*
Adj. Moist. Variation: % (Wet/Dry)	*	*	*	*	*	*
Moisture Content: %	*	*	*	*	*	*
<b>HILF DENSITY RATIO (%):</b>	<b>102.0</b>	<b>105.0</b>	*	*	*	*

#Map Datum AUS84

As Per: AS1289      5.7.1      5.8.1

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