

Golden Grove Estate Stages 7B & 8 Jackass Flat

Earthworks Supervision Report for Maine Civil

Report 25C 0723
April 2026

Golden Grove Estate Stages 7B & 8 Jackass Flat

Earthworks Supervision Report for Maine Civil

Revision

Revision	Date	Authorised
25C 0870	30/04/2026	SEH

Distribution (this revision only)

Recipient	Format	Date
GTSS	On file	30/04/2026
Maine Civil Contact: George Hodoras	Email PDF	30/04/2026



TABLE OF CONTENTS

1	INTRODUCTION	4
2	SCOPE OF WORKS.....	4
2.1	AREA OF WORK.....	4
2.2	PLACEMENT SPECIFICATION	4
3	INSPECTION AND TESTING.....	5
4	SUMMARY OF TEST RESULTS.....	5
5	STATEMENT OF COMPLIANCE	11

APPENDIX

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 for the residential subdivision at Golden Grove Estate Stages 7B and 8, Jackass Flat.

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 in the dams, stump holes and to raise/level the surface across lots 202-213, 235-248, 263-266 and the roadways.

The depth of fill across the site varied from none to around 3500mm in the big dam. Lots with less than 300mm of fill placed are not included in this report.

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 filling may generally be considered small scale (less than 1500m²) increasing to large scale near the finished surface levels. Therefore a minimum of 1 test per layer per 1000m² or 1 test per layer per residential lot is generally required. The testing conducted was generally 1 test per lot per layer which exceeds the minimum requirements.

3 INSPECTION AND TESTING

Inspection of the excavated base was conducted by a Geotechnical Engineer and Senior Technician and it was observed that the unsuitable material (vegetation, topsoil/silt, and low strength wet material) had been removed with the base generally consisting of Silty Clay with satisfactory 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.	Sample No.	Test Date	Location	Reduced Level (mm)	Moisture % O.M.C	Hilf Density Ratio %
1	B25-18503A	9/09/2025	Lot 209	-1500	0.5	99.5
2	B25-18503B	9/09/2025	Lot 208	-1500	0.0	91.5
3	B25-18503C	9/09/2025	Lot 207	-1500	0.0	94.5
4	B25-18503D	9/09/2025	Lot 206	-1200	3.0	95.5
5	B25-18503E	9/09/2025	Lot 205	-1200	0.0	100.5
6	B25-18503F	9/09/2025	Lot 204	-1200	0.0	104.0
7 (RT3)	B25-18508A	9/09/2025	Lot 207	-1500	0.0	100.5
8 (RT2)	B25-18509A	10/09/2025	Lot 208	-1500	0.0	101.5
9	B25-18509B	10/09/2025	Lot 207	-900	1.5	95.0
10	B25-18509C	10/09/2025	Lot 206	-900	0.0	99.5
11	B25-18509D	10/09/2025	Lot 205	-900	-0.5	101.0
12	B25-18509E	10/09/2025	Lot 204	-900	-1.0	99.0
13	B25-18524A	12/09/2025	Lot 204	-600	0.5	99.0
14	B25-18524B	12/09/2025	Lot 205	-600	-0.5	103.5
15	B25-18524C	12/09/2025	Lot 206	-600	0.0	98.0
16	B25-18524D	12/09/2025	Lot 207	-600	0.0	98.0
17	B25-18524E	12/09/2025	Lot 208	-1200	0.5	100.5

Project No.	Sample No.	Test Date	Location	Reduced Level (mm)	Moisture % O.M.C	Hilf Density Ratio %
18	B25-18524F	12/09/2025	Lot 209	-1200	-0.5	99.5
19	B25-18544A	17/09/2025	Lot 209	-900	0.0	102.5
20	B25-18544B	17/09/2025	Lot 208	-900	0.0	100.5
21	B25-18544C	17/09/2025	Lot 207	-300	0.0	99.0
22	B25-18544D	17/09/2025	Lot 206	-300	0.0	100.0
23	B25-18544E	17/09/2025	Lot 205	-300	0.0	98.5
24	B25-18544F	17/09/2025	Lot 204	-300	0.5	98.5
25	B25-18544G	17/09/2025	Lot 239	-2000	0.0	98.0
26	B25-18544H	17/09/2025	Lot 237-245	-1200	-0.5	94.5
27	B25-18544I	17/09/2025	Lot 237	-1200	0.0	94.0
28	B25-18562A	19/09/2025	Lot 208	-600	0.5	99.5
29	B25-18562B	19/09/2025	Lot 209	-600	0.0	99.5
30	B25-18562C	19/09/2025	Lot 208	-2000	0.0	97.5
31 (RT26)	B25-18562D	19/09/2025	Lot 237-245	-1200	-0.5	98.5
32 (RT27)	B25-18562E	19/09/2025	Lot 237	-1200	-0.5	99.0
33	B25-18562F	19/09/2025	Lot 238	-1600	0.0	88.0
34	B25-18562G	19/09/2025	Lot 240	-1300	0.0	99.5
35	B25-18562H	19/09/2025	Lot 239	-1300	0.0	101.0
36	B25-18587A	24/09/2025	Lot 208	-300	0.0	101.0
37	B25-18587B	24/09/2025	Lot 209	-300	1.5	101.5
38	B25-18587C	24/09/2025	Lot 208	-1700	0.0	99.5
39	B25-18587D	24/09/2025	Lot 237	-900	0.5	97.5
40 (RT33)	B25-18587E	24/09/2025	Lot 238	-1600	0.0	99.5
41	B25-18587F	24/09/2025	Lot 240	-1000	0.5	99.5
42	B25-18587G	24/09/2025	Lot 239	-1000	1.0	99.0
43	B25-18587H	24/09/2025	Mulla Mulla Way	-2000	0.0	98.0
44	B25-18675A	14/10/2025	Lot 144	-300	0.0	95.5
45	B25-18675B	14/10/2025	Mulla Mulla Way	-1700	0.5	95.0
46	B25-18675C	14/10/2025	Lot 239	-700	0.0	98.0
47	B25-18675D	14/10/2025	Lot 240	-700	-0.5	98.5
48	B25-18684A	15/10/2025	Lot 242	-800	-2.0	97.5
49	B25-18684B	15/10/2025	Lot 246	-800	0.0	93.5
50	B25-18684C	15/10/2025	Lot 208	-1400	-0.5	96.0
51	B25-18709A	17/10/2025	Lot 239	-900	2.0	100.5
52	B25-18709B	17/10/2025	Lot 240	-900	2.0	99.0
53	B25-18709C	17/10/2025	Lot 238	-900	0.0	101.0
54	B25-18709D	17/10/2025	Lot 208	-1100	-0.5	98.5

Project No.	Sample No.	Test Date	Location	Reduced Level (mm)	Moisture % O.M.C	Hilf Density Ratio %
55	B25-18709E	17/10/2025	Edge Tree Protection	-1000	-0.5	96.0
57	B25-18739B	24/10/2025	Lot 209	-1800	2.0	89.0
56	B25-18739A	24/10/2025	Lot 208 & 209	-2400	2.0	97.0
58	B25-18739C	24/10/2025	Lot 207	-1200	0.0	97.0
59	B25-18739D	24/10/2025	Lot 242	-2100	0.0	97.0
60	B25-18739E	24/10/2025	Lot 245	-1200	0.0	100.5
61	B25-18739F	24/10/2025	Mulla Mulla Way (Big)	-1400	1.0	102.0
62	B25-18739G	24/10/2025	Mulla Mulla Way (Small)	-700	1.0	101.5
63	B25-18739H	24/10/2025	Lot 205	FSL	0.5	98.5
64	B25-18777A	30/10/2025	Mulla Mulla Way (Big)	-1100	-0.5	98.5
65	B25-18777B	30/10/2025	Lot 206	FSL	2.5	105.0
66	B25-18777C	30/10/2025	Lot 207	FSL	1.0	105.5
67	B25-18777D	30/10/2025	Lot 208	FSL	1.0	106.0
68	B25-18777E	30/10/2025	Lot 209	FSL	3.5	107.0
69 (RT57)	B25-18777F	30/10/2025	Lot 209	-1800	0.5	97.0
70	B25-18777G	30/10/2025	Lot 208 / 209	-2100	0.5	96.5
71	B25-18777H	30/10/2025	Lot 207	-900	0.0	95.5
72	B25-18777I	30/10/2025	Big Dam Backfill	Layer 1	1.0	104.0
73	B25-18830A	7/11/2025	Lot 247 Mid	-600	0.5	92.5
74	B25-18830B	7/11/2025	Lot 247 Front	-600	2.0	101.5
75	B25-18830C	7/11/2025	Lot 242	-1400	-0.5	94.0
76	B25-18830D	7/11/2025	Lot 264	-900	-0.5	91.0
77	B25-18830E	7/11/2025	Lot 263	-900	-0.5	96.0
78	B25-18830F	7/11/2025	Bottlebrush Street	-1000	-0.5	91.0
81 (RT76)	B25-18847C	11/11/2025	Lot 264	-900	-2.0	98.0
82 (RT78)	B25-18847D	11/11/2025	Bottlebrush Street	-1000	0.5	101.0
79 (RT73)	B25-18847A	11/11/2025	Lot 247A	-600	2.5	104.0
80 (RT75)	B25-18847B	11/11/2025	Lot 242	-1400	0.5	97.0
83	B25-18847E	11/11/2025	Lot 265	-1400	0.0	96.5
84	B25-18847F	11/11/2025	Lot 248a	-1200	0.0	90.0
85	B25-18847G	11/11/2025	Lot 248b	-1200	-0.5	99.0
86	B25-18847H	11/11/2025	Small Dam	-2100	-1.5	94.5
87	B25-18847I	11/11/2025	Lot 208/209	-1800	2.0	102.5
88	B25-18847J	11/11/2025	Lot 209	-1500	2.0	99.5
89 (RT86)	B25-18859A	12/11/2025	Small Dam	-2100	-1.0	95.0
90	B25-18859B	12/11/2025	Large Dam	-3600	-1.0	100.0

Project No.	Sample No.	Test Date	Location	Reduced Level (mm)	Moisture % O.M.C	Hilf Density Ratio %
91	B25-18859C	12/11/2025	Lot 208/209	-1500	0.5	99.5
92	B25-18859D	12/11/2025	Lot 210	-1800	0.0	99.5
93	B25-18859E	12/11/2025	Lot 202	-1300	0.0	102.5
94	B25-18859F	12/11/2025	Lot 203	-1300	0.0	101.0
95	B25-18859G	12/11/2025	Lot 141	-300	3.5	100.5
96	B25-18859H	12/11/2025	Lot 265	-1100	3.0	93.0
97	B25-18859I	12/11/2025	Lot 244	-900	3.0	92.0
98 (RT84)	B25-18859J	12/11/2025	Lot 248a	-1200	-1.0	93.0
99	B25-18868A	13/11/2025	Lot 239	-1000	0.5	102.0
100	B25-18868B	13/11/2025	Lot 240	-1000	-0.5	97.5
101	B25-18868C	13/11/2025	Lot 241	-1200	0.5	98.5
102	B25-18868D	13/11/2025	Lot 242	-1200	-0.5	99.5
103	B25-18868E	13/11/2025	Large Dam	-3300	-0.5	100.0
104	B25-18868F	13/11/2025	Small Dam	-1800	-1.0	104.5
105	B25-18868G	13/11/2025	Lot 208/209	-1200	0.0	97.5
106	B25-18868H	13/11/2025	Lot 238	-600	2.5	97.0
107	B25-18868I	13/11/2025	Lot 245	-900	1.5	102.5
108	B25-18868J	13/11/2025	Lot 203	-1000	0.5	100.0
109	B25-18868K	13/11/2025	Lot 202	-1000	0.5	99.5
110	B25-18891A	17/11/2025	Lot 239	-700	0.0	99.5
111	B25-18891B	17/11/2025	Lot 240	-700	-0.5	96.5
112	B25-18891C	17/11/2025	Lot 241	-900	0.0	99.0
113	B25-18891D	17/11/2025	Lot 242	-900	0.0	98.0
115	B25-18891F	17/11/2025	Little Dam	-1500	0.5	97.0
116 (RT98)	B25-18891G	17/11/2025	Lot 248a	-1200	0.0	95.5
114	B25-18891E	17/11/2025	Big Dam	-3000	0.5	95.0
117	B25-18891H	17/11/2025	Lot 238	-300	-0.5	99.5
118	B25-18891I	17/11/2025	Lot 245	-600	0.0	99.5
119	B25-18891J	17/11/2025	Lot 246	-300	0.0	99.0
120	B25-18891K	17/11/2025	Lot 247	-600	0.0	97.0
121 (RT97)	B25-18891L	17/11/2025	Lot 244	-900	1.0	97.5
122	B25-18898A	18/11/2025	Lot 203	-700	0.5	100.0
123	B25-18898B	18/11/2025	Lot 202	-700	2.0	102.0
124	B25-18898C	18/11/2025	Lot 208/209	-900	0.5	100.0
125	B25-18898D	18/11/2025	Lot 210	-1500	-0.5	98.5
126	B25-18898E	18/11/2025	Lot 238	FSL	0.5	94.0
127	B25-18898F	18/11/2025	Lot 245	-300	1.5	101.0
128	B25-18898G	18/11/2025	Lot 246	FSL	-0.5	97.5

Project No.	Sample No.	Test Date	Location	Reduced Level (mm)	Moisture % O.M.C	Hilf Density Ratio %
129	B25-18898H	18/11/2025	Lot 247	-300	0.5	105.0
130	B25-18899A	19/11/2025	Lot 202	-400	1.5	104.0
131	B25-18899B	19/11/2025	Lot 203	-400	0.5	99.0
132	B25-18899C	19/11/2025	Mulla Mulla Way	Subgrade	3.5	105.0
133	B25-18899D	19/11/2025	Big Dam	-2700	3.0	100.0
134 (RT126)	B25-18899E	19/11/2025	Lot 238	FSL	0.0	99.5
135 (RT96)	B25-18899F	19/11/2025	Lot 265	-1100	0.5	98.0
136	B25-18934A	25/11/2025	Lot 202	FSL	1.5	104.5
137	B25-18934B	25/11/2025	Lot 203	FSL	0.5	101.5
138	B25-18934C	25/11/2025	Big Dam	-2400	0.0	99.5
139	B25-18934D	25/11/2025	Lot 239	-400	0.0	101.0
140	B25-18934E	25/11/2025	Lot 240	-400	0.0	98.5
141	B25-18934F	25/11/2025	Lot 241	-600	-1.0	100.0
142	B25-18934G	25/11/2025	Lot 242	-600	-0.5	98.0
143	B25-18941A	26/11/2025	Lot 239	FSL	-0.5	98.0
144	B25-18941B	26/11/2025	Lot 240	FSL	-1.5	98.5
145	B25-18941C	26/11/2025	Lot 241	-300	-0.5	98.5
146	B25-18941D	26/11/2025	Lot 242	-300	-1.0	100.0
147	B25-18941E	26/11/2025	Lot 247	FSL	-0.5	98.5
148	B25-18941F	26/11/2025	Lot 245	FSL	0.0	101.0
149	B25-18941G	26/11/2025	Big Dam	-2100	-0.5	99.5
151	B25-18941I	26/11/2025	Lot 244	-600	0.0	100.0
150	B25-18941H	26/11/2025	Lot 243	-600	0.5	100.5
152	B25-18941J	26/11/2025	Lot 266	-600	0.5	101.5
153	B25-18941K	26/11/2025	Lot 265	-600	0.5	103.0
154	B25-18941L	26/11/2025	Lot 264	-300	0.0	99.0
155	B25-18953A	28/11/2025	Lot 266	-300	0.0	103.0
156	B25-18953B	28/11/2025	Lot 265	-300	0.0	98.0
157	B25-18953C	28/11/2025	Lot 264	FSL	0.0	101.5
158	B25-18953D	28/11/2025	Lot 263	-600	0.0	103.0
159	B25-18953E	28/11/2025	Lot 248	-600	2.0	104.0
160	B25-18962A	2/12/2025	Lot 263	-300	0.0	102.0
161	B25-18962B	2/12/2025	Lot 244	-300	0.5	102.5
162	B25-18962C	2/12/2025	Lot 243	-300	0.0	101.0
163	B25-18962D	2/12/2025	Lot 265	FSL	0.5	104.0
164	B25-18962E	2/12/2025	Lot 266	FSL	0.0	99.5
165	B25-18962F	2/12/2025	Lot 248	-300	0.5	100.5

Project No.	Sample No.	Test Date	Location	Reduced Level (mm)	Moisture % O.M.C	Hilf Density Ratio %
166	B25-18962G	2/12/2025	Small Dam	-1500	-0.5	98.5
167	B25-18962H	2/12/2025	Lot 211	-1500	-0.5	96.0
168	B25-18962I	2/12/2025	Lot 212	-1500	0.0	96.5
169	B25-18962J	2/12/2025	Lot 213	-1200	1.5	101.5
170	B25-18962K	2/12/2025	Dam Backfill Big Dam	-1800	-2.0	99.0
171	B25-19045A	15/12/2025	Lot 248	FSL	3.5	101.5
172	B25-19045B	15/12/2025	Small Dam	-1200	2.5	101.5
173	B25-19045C	15/12/2025	Lot 211	-1200	4.0	97.5
174	B25-19045D	15/12/2025	Lot 212	-1200	3.5	104.0
175	B25-19045E	15/12/2025	Lot 213	-900	4.0	103.5
176	B25-19045F	15/12/2025	Lot 243	FSL	1.5	106.0
177	B25-19045G	15/12/2025	Lot 244	FSL	1.0	104.5
178	B25-19045H	15/12/2025	Lot 263	FSL	0.0	102.5
179	B25-19054A	16/12/2025	Bushland Way	-250	4.5	108.0
180	B25-19054B	16/12/2025	Bushland Way / Mulla Mulla Way Intersection	-250	3.0	109.5
181	B25-19054C	16/12/2025	Mulla Mulla Way / Bushland Way Intersection	-250	4.5	110.5
182	B25-19054D	16/12/2025	Mulla Mulla Way	-250	4.0	106.0
183	B26-19112A	14/01/2026	Small Dam	-900	-0.5	102.0
184	B26-19112B	14/01/2026	Big Dam	-1500	-0.5	97.5
185	B26-19139A	19/01/2026	BigDam	-1200	1.0	98.5
186	B26-19139B	19/01/2026	Small Dam	-600	0.0	96.5
187	B26-19193A	23/01/2026	Small Dam	-300	0.5	99.5
188	B26-19193B	23/01/2026	Lot 235	-1200	1.5	96.5
189	B26-19246A	2/02/2026	Lot 237	-1200	0.0	100.5
190	B26-19246B	2/02/2026	Lot 236	-1200	0.0	98.0
191	B26-19246C	2/02/2026	Lot 213	-600	2.0	96.5
192	B26-19253A	3/02/2026	Lot 237	-900	0.0	103.0
193	B26-19253B	3/02/2026	Lot 236	-900	0.0	97.0
194	B26-19253C	3/02/2026	Lot 235	-900	-0.5	98.5
195	B26-19253D	3/02/2026	Lot 247	FSL	1.0	99.0
196	B26-19253E	3/02/2026	Lot 211	-900	0.0	95.0
197	B26-19253F	3/02/2026	Lot 212	-900	0.0	93.5
198	B26-19271A	4/02/2026	Lot 211	-600	0.0	100.0
199 (RT197)	B26-19271B	4/02/2026	Lot 212	-900	-0.5	97.0

Project No.	Sample No.	Test Date	Location	Reduced Level (mm)	Moisture % O.M.C	Hilf Density Ratio %
200	B26-19271C	4/02/2026	Lot 213	-300	-1.0	97.5
201	B26-19271D	4/02/2026	Lot 210	-1200	0.0	99.5
202	B26-19271E	4/02/2026	Big Dam /Road	-900	0.0	97.0
203	B26-19280A	5/02/2026	Lot 236	-600	0.5	102.0
204	B26-19280B	5/02/2026	Lot 237	-600	1.5	102.5
205	B26-19280C	5/02/2026	Lot 235	-600	0.5	101.0
206	B26-19297A	6/02/2026	Big Dam / Road	-600	2.5	97.5
207	B26-19297B	6/02/2026	Lot 210	-900	1.5	104.0
208	B26-19297C	6/02/2026	Lot 211	-300	1.5	103.0
209	B26-19297D	6/02/2026	Lot 212	-600	2.0	102.5
212	B26-19340A	12/02/2026	Lot 237	-300	1.0	102.5
213	B26-19340B	12/02/2026	Lot 236	-300	0.5	103.0
214	B26-19340C	12/02/2026	Lot 235	-300	0.5	101.0
215	B26-19409A	20/02/2026	Lot 237	FSL	2.5	101.5
216	B26-19409B	20/02/2026	Lot 236	FSL	2.0	103.0
217	B26-19409C	20/02/2026	Lot 235	FSL	4.0	105.0
218	B26-19409D	20/02/2026	Big Dam / Road	-300	2.0	98.0
219	B26-19409E	20/02/2026	Lot 210	-600	4.0	96.5
220	B26-19531A	12/03/2026	Lot 212	-300	3.0	104.0
221	B26-19531B	12/03/2026	Lot 213	FSL	0.5	99.5
222	B26-19531C	12/03/2026	Lot 210	-300	0.5	97.5
223	B26-19531D	12/03/2026	Lot 211	FSL	2.5	100.5
224	B26-19531E	12/03/2026	Big Dam / Road	FSL	0.5	101.5
225	B26-19693A	7/04/2026	Lot 212	FSL	2.5	96.5
226	B26-19693B	7/04/2026	Lot 210	FSL	1.0	101.5
227	B26-19693C	7/04/2026	Lot 204	FSL	4.5	102.0
228	B26-19693D	7/04/2026	Lot 241	FSL	2.0	103.0
229	B26-19693E	7/04/2026	Lot 242	FSL	1.5	102.0

Note: For Moisture variation -ve is wet and +ve is dry of Optimum Moisture Content

5 STATEMENT OF COMPLIANCE

GTS personnel have provided Level 1 inspection and testing services during the placement of material for the filling in Lots 202-213, 235-248, 263-266 and the roadways. 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 topsoil material may be spread across the sites following completion of these earthworks and that this topsoil material is not considered controlled fill.

Should you have any queries, please contact the undersigned in our Bendigo office.

A handwritten signature in black ink, appearing to read 'Shane Hampton', with a stylized, cursive script.

Shane Hampton (BE (Hons)) MIEAust
Principal Geotechnical Engineer

APPENDIX

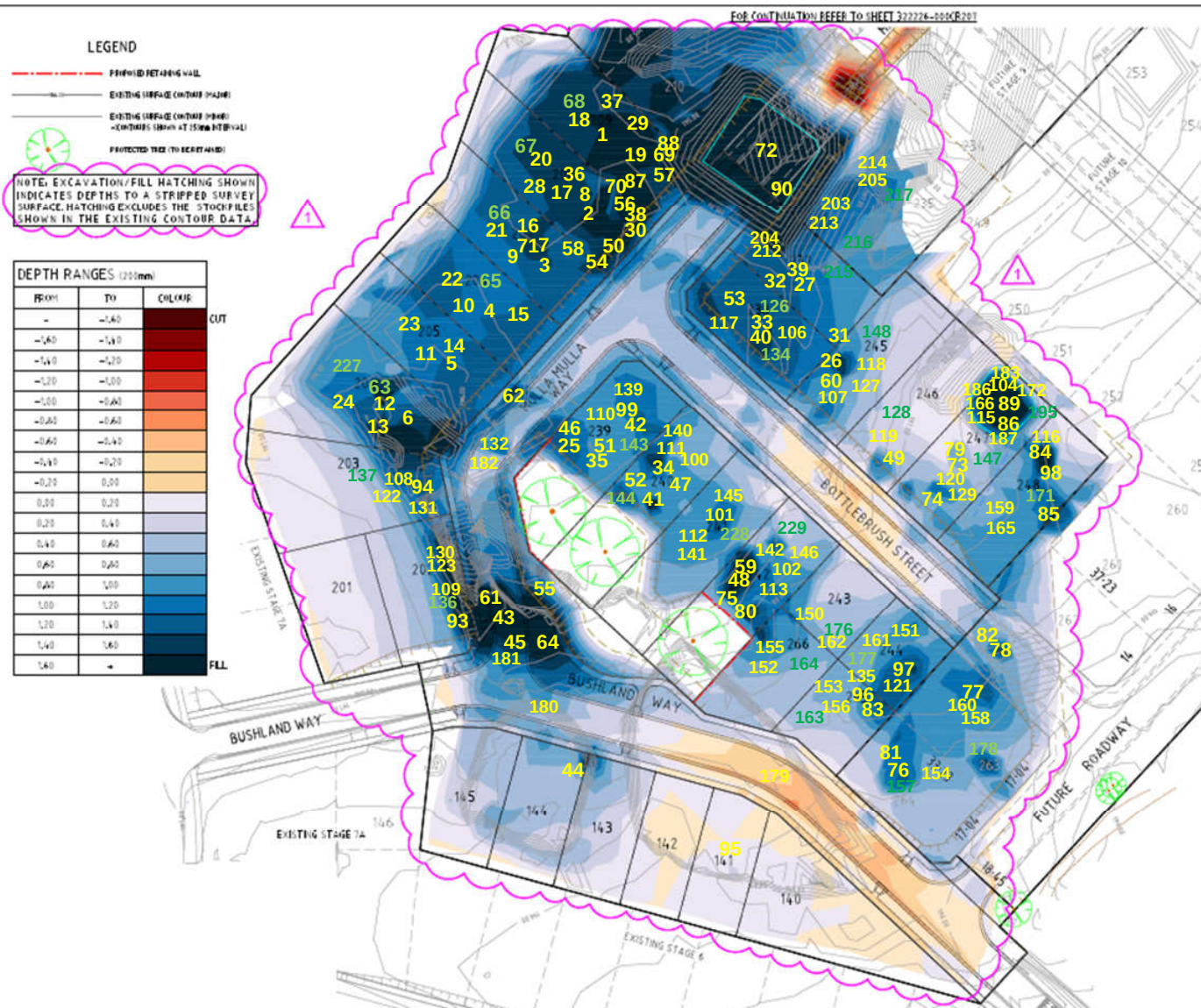


Fig 1: Site Plan with test locations

DEPTH RANGES (250mm)			
FROM	TO	COLOR	
-	-1.60		CUT
-1.60	-1.40		
-1.40	-1.20		
-1.20	-1.00		
-1.00	-0.80		
-0.80	-0.60		
-0.60	-0.40		
-0.40	-0.20		FILL
-0.20	0.00		
0.00	0.20		
0.20	0.40		
0.40	0.60		
0.60	0.80		
0.80	1.00		
1.00	1.20		
1.20	1.40		
1.40	1.60		
1.60	+		

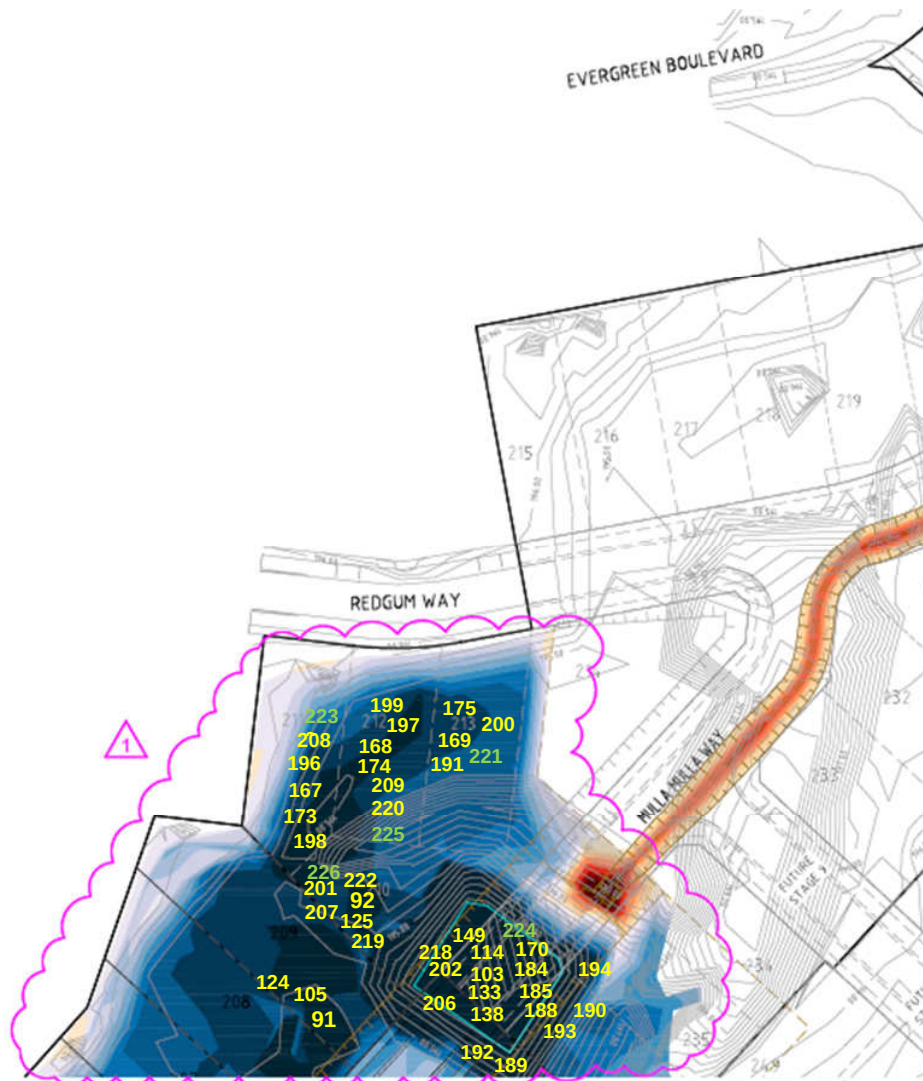


Fig 21: Site Plan with test locations

Material Test Report

Report Number: P253261-1
Issue Number: 1
Date Issued: 09/09/2025
Client: Mainecivil
9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18503
Date Sampled: 09/09/2025
Dates Tested: 09/09/2025 - 09/09/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat
Material Source: Test Location



Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: cobanl@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Coban Lenten
Gtss-coban

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1

Sample Number	B25-18503A	B25-18503B	B25-18503C	B25-18503D	B25-18503E	B25-18503F
Test Number	1	2	3	4	5	6
Date Tested	09/09/2025	09/09/2025	09/09/2025	09/09/2025	09/09/2025	09/09/2025
Time Tested	11:13	11:19	11:25	11:28	11:33	11:38
Test Request #/Location	House Blocks Lot 209	House Blocks Lot 208	House Blocks Lot 207	House Blocks Lot 206	House Blocks Lot 205	House Blocks Lot 204
Chainage (m)	Centre	Centre	Centre	Centre	Centre	Centre
Location Offset (m)	**	**	**	**	**	**
Layer / Reduced Level	-1500	-1500	-1500	-1200	-1200	-1200
Thickness of Layer (mm)	300	300	300	300	300	300
Soil Description	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	7	0	0	0	0
Field Wet Density (FWD) t/m ³	2.15	1.97	2.02	1.93	2.12	2.27
Field Dry Density (FDD) t/m ³	**	**	**	**	**	**
Peak Converted Wet Density t/m ³	2.16	**	2.14	2.02	2.11	2.19
Adjusted Peak Converted Wet Density t/m ³	**	2.15	**	**	**	**
Moisture Variation (Wv) %	0.5	**	0.0	3.0	0.0	0.0
Adjusted Moisture Variation %	**	0.0	**	**	**	**
Hilf Density Ratio (%)	99.5	91.5	94.5	95.5	100.5	104.0
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P253261-2
Issue Number: 1
Date Issued: 10/09/2025
Client: Mainecivil
9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18508
Date Sampled: 09/09/2025
Dates Tested: 09/09/2025 - 10/09/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat - Stage 8
Material Source: Test Location



Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: tylerw@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Tyler Webb

Snr. Field Technician

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1

Sample Number	B25-18508A		
Test Number	7		
Date Tested	09/09/2025		
Time Tested	16:16		
Test Request #/Location	Retest for B25-18503C House Blocks		
Chainage (m)	Lot 207		
Location Offset (m)	Centre		
Layer / Reduced Level	-1500		
Thickness of Layer (mm)	300		
Soil Description	Gravelly Silty Clay		
Test Depth (mm)	275		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	0		
Field Wet Density (FWD) t/m ³	2.19		
Field Dry Density (FDD) t/m ³	**		
Peak Converted Wet Density t/m ³	2.17		
Adjusted Peak Converted Wet Density t/m ³	**		
Moisture Variation (Wv) %	0.0		
Adjusted Moisture Variation %	**		
Hilf Density Ratio (%)	100.5		
Compaction Method	Standard		
Remarks	**		

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P253261-3
Issue Number: 1
Date Issued: 10/09/2025
Client: Mainecivil
9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18509
Date Sampled: 10/09/2025
Dates Tested: 10/09/2025 - 10/09/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat - Stage 8
Material Source: Test Location



Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: tylerw@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Tyler Webb

Snr. Field Technician

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1					
Sample Number	B25-18509A	B25-18509B	B25-18509C	B25-18509D	B25-18509E
Test Number	8	9	10	11	12
Date Tested	10/09/2025	10/09/2025	10/09/2025	10/09/2025	10/09/2025
Time Tested	09:01	09:11	09:18	09:24	09:30
Test Request #/Location	Retest for B25-18503B House Blocks	House Blocks	House Blocks	House Blocks	House Blocks
Chainage (m)	Lot 208	Lot 207	Lot 206	Lot 205	Lot 204
Location Offset (m)	Centre	Centre	Centre	Centre	Centre
Layer / Reduced Level	-1500	-900	-900	-900	-900
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay
Test Depth (mm)	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	5	4	8
Field Wet Density (FWD) t/m ³	2.21	1.99	2.18	2.21	2.18
Field Dry Density (FDD) t/m ³	**	**	**	**	**
Peak Converted Wet Density t/m ³	2.18	2.10	**	**	**
Adjusted Peak Converted Wet Density t/m ³	**	**	2.20	2.19	2.20
Moisture Variation (Wv) %	0.0	1.5	**	**	**
Adjusted Moisture Variation %	**	**	0.0	-0.5	-1.0
Hilf Density Ratio (%)	101.5	95.0	99.5	101.0	99.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P253261-4
Issue Number: 1
Date Issued: 15/09/2025
Client: Mainecivil
 9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18524
Date Sampled: 12/09/2025
Dates Tested: 12/09/2025 - 12/09/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat - Stage 8
Material Source: Test Location



Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: cobanl@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



[Signature]

Approved Signatory: Coban Lenten
 Gtss-coban

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1						
Sample Number	B25-18524A	B25-18524B	B25-18524C	B25-18524D	B25-18524E	B25-18524F
Test Number	13	14	15	16	17	18
Date Tested	12/09/2025	12/09/2025	12/09/2025	12/09/2025	12/09/2025	12/09/2025
Time Tested	08:25	08:32	08:35	08:38	08:41	08:48
Test Request #/Location	Stage 8 House Blocks	Stage 8 House Blocks	Stage 8 House Blocks	Stage 8 House Blocks	Stage 8 House Blocks	Stage 8 House Blocks
Chainage (m)	Lot 204	Lot 205	Lot 206	Lot 207	Lot 208	Lot 209
Location Offset (m)	Centre	Centre	Centre	Centre	Centre	Centre
Layer / Reduced Level	-600	-600	-600	-600	-1200	-1200
Thickness of Layer (mm)	300	300	300	300	300	300
Soil Description	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.19	2.26	2.15	2.16	2.17	2.18
Field Dry Density (FDD) t/m ³	**	**	**	**	**	**
Peak Converted Wet Density t/m ³	2.21	2.18	2.19	2.21	2.16	2.19
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	0.5	-0.5	0.0	0.0	0.5	-0.5
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	99.0	103.5	98.0	98.0	100.5	99.5
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: P253261-5
Issue Number: 1
Date Issued: 18/09/2025
Client: Mainecivil
 9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18544
Date Sampled: 17/09/2025
Dates Tested: 17/09/2025 - 18/09/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat
Material Source: Test Location

Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: joshl@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



TL

Approved Signatory: Josh Lagodzki
 CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1					
Sample Number	B25-18544A	B25-18544B	B25-18544C	B25-18544D	B25-18544E
Test Number	19	20	21	22	23
Date Tested	17/09/2025	17/09/2025	17/09/2025	17/09/2025	17/09/2025
Time Tested	11:57	12:03	12:08	12:12	12:18
Test Request #/Location	Stage 8 House Block	Stage 8 House Block	Stage 8 House Block	Stage 8 House Block	Stage 8 House Block
Chainage (m)	Lot 209	Lot 208	Lot 207	Lot 206	Lot 205
Location Offset (m)	Centre	Centre	Centre	Centre	Centre
Layer / Reduced Level	-900	-900	-300	-300	-300
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay
Test Depth (mm)	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	3	0	0	0
Field Wet Density (FWD) t/m ³	2.24	2.20	2.16	2.20	2.17
Field Dry Density (FDD) t/m ³	**	**	**	**	**
Peak Converted Wet Density t/m ³	2.19	**	2.18	2.21	2.21
Adjusted Peak Converted Wet Density t/m ³	**	2.18	**	**	**
Moisture Variation (Wv) %	0.0	**	0.0	0.0	0.0
Adjusted Moisture Variation %	**	0.0	**	**	**
Hilf Density Ratio (%)	102.5	100.5	99.0	100.0	98.5
Compaction Method	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P253261-5
Issue Number: 1
Date Issued: 18/09/2025
Client: Mainecivil
9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18544
Date Sampled: 17/09/2025
Dates Tested: 17/09/2025 - 18/09/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat
Material Source: Test Location



Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: joshl@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Josh Lagodzki
CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1					
Sample Number	B25-18544F	B25-18544G	B25-18544H	B25-18544I	
Test Number	24	25	26	27	
Date Tested	17/09/2025	17/09/2025	17/09/2025	17/09/2025	
Time Tested	12:22	12:29	12:35	12:43	
Test Request #/Location	Stage 8 House Block	Stage 8 House Block / Stump Hole	Stage 8 House Block / Stump Hole	Stage 8 House Block / Stump Hole	
Chainage (m)	Lot 204	Lot 239	Lot 237-245	Lot 237	
Location Offset (m)	Centre	Centre	Boundry	Centre	
Layer / Reduced Level	-300	-2000	-1200	-1200	
Thickness of Layer (mm)	300	300	300	300	
Soil Description	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay	
Test Depth (mm)	275	275	275	275	
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	0	0	
Field Wet Density (FWD) t/m ³	2.16	2.10	2.01	2.05	
Field Dry Density (FDD) t/m ³	**	**	**	**	
Peak Converted Wet Density t/m ³	2.20	2.14	2.12	2.17	
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	
Moisture Variation (Wv) %	0.5	0.0	-0.5	0.0	
Adjusted Moisture Variation %	**	**	**	**	
Hilf Density Ratio (%)	98.5	98.0	94.5	94.0	
Compaction Method	Standard	Standard	Standard	Standard	
Remarks	**	**	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: P253261-6
Issue Number: 1
Date Issued: 19/09/2025
Client: Mainecivil
9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18562
Date Sampled: 19/09/2025
Dates Tested: 19/09/2025 - 19/09/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat
Material Source: Test Location

Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: joshl@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Josh Lagodzki
CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1				
Sample Number	B25-18562A	B25-18562B	B25-18562C	B25-18562D
Test Number	28	29	30	31
Date Tested	19/09/2025	19/09/2025	19/09/2025	19/09/2025
Time Tested	10:05	10:15	10:23	10:31
Test Request #/Location	Stage 8 House Blocks	Stage 8 House Blocks	Stage 8 House Blocks / Stump Hole	Retest for B25-18544H Stage 8 / House Blocks / Stump Hole
Chainage (m)	Lot 208	Lot 209	Lot 208	Lot 237-245
Location Offset (m)	Centre	Centre	Centre	Boundry
Layer / Reduced Level	-600	-600	-2000	-1200
Thickness of Layer (mm)	300	300	300	300
Soil Description	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay
Test Depth (mm)	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	4	0	0	0
Field Wet Density (FWD) t/m ³	2.11	2.17	2.13	2.09
Field Dry Density (FDD) t/m ³	**	**	**	**
Peak Converted Wet Density t/m ³	**	2.18	2.19	2.12
Adjusted Peak Converted Wet Density t/m ³	2.12	**	**	**
Moisture Variation (Wv) %	**	0.0	0.0	-0.5
Adjusted Moisture Variation %	0.5	**	**	**
Hilf Density Ratio (%)	99.5	99.5	97.5	98.5
Compaction Method	Standard	Standard	Standard	Standard
Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P253261-6
Issue Number: 1
Date Issued: 19/09/2025
Client: Mainecivil
9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18562
Date Sampled: 19/09/2025
Dates Tested: 19/09/2025 - 19/09/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat
Material Source: Test Location



Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: joshl@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Josh Lagodzki
CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1				
Sample Number	B25-18562E	B25-18562F	B25-18562G	B25-18562H
Test Number	32	33	34	35
Date Tested	19/09/2025	19/09/2025	19/09/2025	19/09/2025
Time Tested	10:38	10:47	10:59	11:11
Test Request #/Location	Retest for B25-18544I Stage 8 / House Blocks / Stump Hole	Stage 8 House Blocks / Stump Hole	Stage 8 House Blocks / Stump Hole	Stage 8 House Blocks / Stump Hole
Chainage (m)	Lot 237	Lot 238	Lot 240	Lot 239
Location Offset (m)	Centre	Centre	Centre	Centre
Layer / Reduced Level	-1200	-1600	-1300	-1300
Thickness of Layer (mm)	300	300	300	300
Soil Description	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay
Test Depth (mm)	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	6
Field Wet Density (FWD) t/m ³	2.11	1.87	2.12	2.18
Field Dry Density (FDD) t/m ³	**	**	**	**
Peak Converted Wet Density t/m ³	2.12	2.13	2.13	**
Adjusted Peak Converted Wet Density t/m ³	**	**	**	2.16
Moisture Variation (Wv) %	-0.5	0.0	0.0	**
Adjusted Moisture Variation %	**	**	**	0.0
Hilf Density Ratio (%)	99.0	88.0	99.5	101.0
Compaction Method	Standard	Standard	Standard	Standard
Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P253261-7
Issue Number: 1
Date Issued: 25/09/2025
Client: Mainecivil
9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18587
Date Sampled: 24/09/2025
Dates Tested: 24/09/2025 - 24/09/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat - Stage 8
Material Source: Test Location



Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: tylerw@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Tyler Webb

Snr. Field Technician

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1				
Sample Number	B25-18587A	B25-18587B	B25-18587C	B25-18587D
Test Number	36	37	38	39
Date Tested	24/09/2025	24/09/2025	24/09/2025	24/09/2025
Time Tested	12:04	12:08	12:14	12:19
Test Request #/Location	Stage 8 House Blocks	Stage 8 House Blocks	Stage 8 House Blocks / Stump Hole	Stage 8 House Blocks / Stump Hole
Chainage (m)	Lot 208	Lot 209	Lot 208	Lot 237
Location Offset (m)	Centre	Centre	Front	Centre
Layer / Reduced Level	-300	-300	-1700	-900
Thickness of Layer (mm)	300	300	300	300
Soil Description	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay
Test Depth (mm)	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0
Field Wet Density (FWD) t/m ³	2.14	2.10	2.16	2.11
Field Dry Density (FDD) t/m ³	**	**	**	**
Peak Converted Wet Density t/m ³	2.13	2.07	2.17	2.17
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	0.0	1.5	0.0	0.5
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	101.0	101.5	99.5	97.5
Compaction Method	Standard	Standard	Standard	Standard
Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P253261-7
Issue Number: 1
Date Issued: 25/09/2025
Client: Mainecivil
9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18587
Date Sampled: 24/09/2025
Dates Tested: 24/09/2025 - 24/09/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat - Stage 8
Material Source: Test Location



Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: tylerw@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Tyler Webb

Snr. Field Technician

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1				
Sample Number	B25-18587E	B25-18587F	B25-18587G	B25-18587H
Test Number	40	41	42	43
Date Tested	24/09/2025	24/09/2025	24/09/2025	24/09/2025
Time Tested	12:23	12:28	12:33	12:45
Test Request #/Location	B25-18562F Retest Stage 8 / House Block / Stump Hole	Stage 8 House Blocks / Stump Hole	Stage 8 House Blocks / Stump Hole	Stage 8 Roadway / Stump Hole
Chainage (m)	Lot 238	Lot 240	Lot 239	Mulla Mulla Way
Location Offset (m)	Centre	Centre	Centre	Centre
Layer / Reduced Level	-1600	-1000	-1000	-2000
Thickness of Layer (mm)	300	300	300	300
Soil Description	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay
Test Depth (mm)	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0
Field Wet Density (FWD) t/m ³	2.15	2.14	2.12	2.14
Field Dry Density (FDD) t/m ³	**	**	**	**
Peak Converted Wet Density t/m ³	2.17	2.15	2.14	2.19
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	0.0	0.5	1.0	0.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	99.5	99.5	99.0	98.0
Compaction Method	Standard	Standard	Standard	Standard
Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P253261-8
Issue Number: 1
Date Issued: 15/10/2025
Client: Mainecivil
9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18675
Date Sampled: 14/10/2025
Dates Tested: 14/10/2025 - 14/10/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat - Stage 8
Material Source: Test Location



Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: cobanl@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Coban Lenten
Gtss-coban

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1				
Sample Number	B25-18675A	B25-18675B	B25-18675C	B25-18675D
Test Number	44	45	46	47
Date Tested	14/10/2025	14/10/2025	14/10/2025	14/10/2025
Time Tested	13:54	13:59	14:09	14:14
Test Request #/Location	Stage 8 House Block / Stump Hole	Stage 8 Roadway / Stump Hole	Stage 8 House Block / Stump Hole	Stage 8 House Block / Stump Hole
Chainage (m)	Lot 144	Mulla Mulla Way	Lot 239	Lot 240
Location Offset (m)	**	Centre	**	**
Layer / Reduced Level	-300	-1700	-700	-700
Thickness of Layer (mm)	300	300	300	300
Soil Description	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay
Test Depth (mm)	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0
Field Wet Density (FWD) t/m ³	2.12	2.04	2.13	2.11
Field Dry Density (FDD) t/m ³	**	**	**	**
Peak Converted Wet Density t/m ³	2.22	2.14	2.17	2.14
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	0.0	0.5	0.0	-0.5
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	95.5	95.0	98.0	98.5
Compaction Method	Standard	Standard	Standard	Standard
Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P253261-9
Issue Number: 1
Date Issued: 15/10/2025
Client: Mainecivil
9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18684
Date Sampled: 15/10/2025
Dates Tested: 15/10/2025 - 15/10/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat
Material Source: Test Location



Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: cobanl@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Coban Lenten
Gtss-coban

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B25-18684A	B25-18684B	B25-18684C
Test Number	48	49	50
Date Tested	15/10/2025	15/10/2025	15/10/2025
Time Tested	09:07	09:15	09:22
Test Request #/Location	Stage 8 House Block / Stump Hole	Stage 8 House Block / Stump Hole	Stage 8 House Block / Stump Hole
Chainage (m)	Lot 242	Lot 246	Lot 208
Location Offset (m)	**	**	**
Layer / Reduced Level	-800	-800	-1400
Thickness of Layer (mm)	300	300	300
Soil Description	Sandy Gravelly Clay	Sandy Gravelly Clay	Sandy Gravelly Clay
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	2.06	2.00	2.06
Field Dry Density (FDD) t/m ³	**	**	**
Peak Converted Wet Density t/m ³	2.12	2.13	2.15
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	-2.0	0.0	-0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	97.5	93.5	96.0
Compaction Method	Standard	Standard	Standard
Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P253261-10
Issue Number: 1
Date Issued: 17/10/2025
Client: Mainecivil
 9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18709
Date Sampled: 17/10/2025
Dates Tested: 17/10/2025 - 17/10/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Stage 8
Material Source: Test Location



Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: joshl@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



TL

Approved Signatory: Josh Lagodzki
 CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1					
Sample Number	B25-18709A	B25-18709B	B25-18709C	B25-18709D	B25-18709E
Test Number	51	52	53	54	55
Date Tested	17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025
Time Tested	10:15	10:20	10:28	10:33	10:39
Test Request #/Location	Lot 239	Lot 240	Lot 238	Stump hole -Lot 208	Stump hole - Edge Tree Protection
Chainage (m)	See Map	See Map	See Map	See Map	See Map
Location Offset (m)	**	**	**	**	**
Layer / Reduced Level	-900	-900	-900	-1100	-1000
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Test Depth (mm)	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.09	1.91	2.13	2.12	2.11
Field Dry Density (FDD) t/m ³	**	**	**	**	**
Peak Converted Wet Density t/m ³	2.08	1.93	2.11	2.15	2.20
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	0.0	-0.5	-0.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	100.5	99.0	101.0	98.5	96.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: P253261-11
Issue Number: 1
Date Issued: 28/10/2025
Client: Mainecivil
9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18739
Date Sampled: 24/10/2025
Dates Tested: 24/10/2025 - 27/10/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat
Material Source: Test Location

Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: joshl@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Josh Lagodzki
CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1				
Sample Number	B25-18739A	B25-18739B	B25-18739C	B25-18739D
Test Number	56	57	58	59
Date Tested	24/10/2025	24/10/2025	24/10/2025	24/10/2025
Time Tested	09:08	09:04	09:11	09:15
Test Request #/Location	Stumphole 208 & 209	Stumphole Lot 209	Stumphole Lot 207	Stumphole Lot 242
Chainage (m)	Centre	Centre	Centre	Centre
Location Offset (m)	**	**	**	**
Layer / Reduced Level	-2400	-1800	-1200	-2100
Thickness of Layer (mm)	300	300	300	300
Soil Description	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty Clay
Test Depth (mm)	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	3	0	0	0
Field Wet Density (FWD) t/m ³	2.05	1.92	2.10	2.13
Field Dry Density (FDD) t/m ³	**	**	**	**
Peak Converted Wet Density t/m ³	**	2.16	2.16	2.20
Adjusted Peak Converted Wet Density t/m ³	2.12	**	**	**
Moisture Variation (Wv) %	**	2.0	0.0	0.0
Adjusted Moisture Variation %	2.0	**	**	**
Hilf Density Ratio (%)	97.0	89.0	97.0	97.0
Compaction Method	Standard	Standard	Standard	Standard
Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P253261-11
Issue Number: 1
Date Issued: 28/10/2025
Client: Mainecivil
9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18739
Date Sampled: 24/10/2025
Dates Tested: 24/10/2025 - 27/10/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat
Material Source: Test Location



Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: joshl@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Josh Lagodzki
CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1				
Sample Number	B25-18739E	B25-18739F	B25-18739G	B25-18739H
Test Number	60	61	62	63
Date Tested	24/10/2025	24/10/2025	24/10/2025	24/10/2025
Time Tested	09:21	09:27	09:32	09:36
Test Request #/Location	Stumphole Lot 245	Roadway Big Stumphole Mulla Mulla Way	Roadway Little Stumphole Mulla Mulla Way	Lot 205
Chainage (m)	Centre	Centre	Centre	Centre
Location Offset (m)	**	**	**	**
Layer / Reduced Level	-1200	-1400	-700	FSL
Thickness of Layer (mm)	300	300	300	300
Soil Description	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty Clay
Test Depth (mm)	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	6	0	**
Field Wet Density (FWD) t/m ³	2.15	2.24	2.12	2.09
Field Dry Density (FDD) t/m ³	**	**	**	**
Peak Converted Wet Density t/m ³	2.14	**	2.08	2.12
Adjusted Peak Converted Wet Density t/m ³	**	2.20	**	**
Moisture Variation (Wv) %	0.0	**	1.0	0.5
Adjusted Moisture Variation %	**	1.0	**	**
Hilf Density Ratio (%)	100.5	102.0	101.5	98.5
Compaction Method	Standard	Standard	Standard	Standard
Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: P253261-12
Issue Number: 1
Date Issued: 31/10/2025
Client: Mainecivil
 9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18777
Date Sampled: 30/10/2025
Dates Tested: 30/10/2025 - 31/10/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat - Stage 8
Material Source: Test Location

Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: joshl@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



TL

Approved Signatory: Josh Lagodzki
 CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1					
Sample Number	B25-18777A	B25-18777B	B25-18777C	B25-18777D	B25-18777E
Test Number	64	65	66	67	68
Date Tested	30/10/2025	30/10/2025	30/10/2025	30/10/2025	30/10/2025
Time Tested	11:03	11:08	11:14	11:18	11:21
Test Request #/Location	Mulla Mulla Way Big Stump Hole	Lot 206	Lot 207	Lot 208	Lot 209
Chainage (m)	Centre	Centre	Centre	Centre	Centre
Location Offset (m)	**	**	**	**	**
Layer / Reduced Level	-1100	FSL	FSL	FSL	FSL
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty Clay
Test Depth (mm)	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.17	2.10	2.18	2.14	2.16
Field Dry Density (FDD) t/m ³	**	**	**	**	**
Peak Converted Wet Density t/m ³	2.21	2.00	2.07	2.03	2.02
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	-0.5	2.5	1.0	1.0	3.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	98.5	105.0	105.5	106.0	107.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: P253261-12
Issue Number: 1
Date Issued: 31/10/2025
Client: Mainecivil
9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18777
Date Sampled: 30/10/2025
Dates Tested: 30/10/2025 - 31/10/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat - Stage 8
Material Source: Test Location

Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: joshl@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Josh Lagodzki
CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1					
Sample Number	B25-18777F	B25-18777G	B25-18777H	B25-18777I	
Test Number	69	70	71	72	
Date Tested	30/10/2025	30/10/2025	30/10/2025	30/10/2025	
Time Tested	11:29	11:32	11:33	11:41	
Test Request #/Location	B25-18739B Re-test Lot 209 Stumphole	Lot 208 / 209 Stumphole	Lot 207 Stumphole	Big Dam Backfill	
Chainage (m)	Centre	Centre	Centre	Centre	
Location Offset (m)	**	**	**	**	
Layer / Reduced Level	-1800	-2100	-900	Layer 1	
Thickness of Layer (mm)	300	300	300	300	
Soil Description	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty Clay	
Test Depth (mm)	275	275	275	275	
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	0	0	
Field Wet Density (FWD) t/m ³	2.12	2.10	2.10	2.12	
Field Dry Density (FDD) t/m ³	**	**	**	**	
Peak Converted Wet Density t/m ³	2.19	2.18	2.19	2.04	
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	
Moisture Variation (Wv) %	0.5	0.5	0.0	1.0	
Adjusted Moisture Variation %	**	**	**	**	
Hilf Density Ratio (%)	97.0	96.5	95.5	104.0	
Compaction Method	Standard	Standard	Standard	Standard	
Remarks	**	**	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P253261-13
Issue Number: 1
Date Issued: 10/11/2025
Client: Mainecivil
9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18830
Date Sampled: 07/11/2025
Dates Tested: 07/11/2025 - 10/11/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Stage 8
Material Source: Test Location



Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: cobanl@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Coban Lenten
Gtss-coban

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1

Sample Number	B25-18830A	B25-18830B	B25-18830C	B25-18830D	B25-18830E	B25-18830F
Test Number	73	74	75	76	77	78
Date Tested	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025
Time Tested	11:07	11:09	11:17	11:22	11:29	11:39
Test Request #/Location	Lot 247A Stumphole	Lot 247B Stumphole	Lot 242 Stumphole	Lot 264 Stumphole	Lot 263 A Stumphole	Bottlebrush Street Stumphole
Chainage (m)	Centre	Front	Centre	Centre	Centre	Top of Street
Location Offset (m)	Centre	Centre	Centre	Centre	Centre	Centre
Layer / Reduced Level	-600	-600	-1400	-900	-900	-1000
Thickness of Layer (mm)	300	300	300	300	300	300
Soil Description	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty Clay
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	10	8	0	0	0	0
Field Wet Density (FWD) t/m ³	2.12	2.23	2.11	1.97	2.07	2.01
Field Dry Density (FDD) t/m ³	**	**	**	**	**	**
Peak Converted Wet Density t/m ³	**	**	2.25	2.16	2.16	2.21
Adjusted Peak Converted Wet Density t/m ³	2.29	2.20	**	**	**	**
Moisture Variation (Wv) %	**	**	-0.5	-0.5	-0.5	-0.5
Adjusted Moisture Variation %	0.5	2.0	**	**	**	**
Hilf Density Ratio (%)	92.5	101.5	94.0	91.0	96.0	91.0
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P253261-14
Issue Number: 1
Date Issued: 12/11/2025
Client: Mainecivil
 9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18847
Date Sampled: 11/11/2025
Dates Tested: 11/11/2025 - 12/11/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat Stage 8
Material Source: Test Location



Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: joshl@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



TL

Approved Signatory: Josh Lagodzki
 CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1					
Sample Number	B25-18847A	B25-18847B	B25-18847C	B25-18847D	B25-18847E
Test Number	79	80	81	82	83
Date Tested	11/11/2025	11/11/2025	11/11/2025	11/11/2025	11/11/2025
Time Tested	11:07	11:15	10:56	11:03	11:22
Test Request #/Location	18830A Retest Lot 247A Stump Hole	18830C Retest Lot 242 Stump Hole	18830D Retest Lot 264 Stump Hole	18830F Retest Bottlebrush Street Stump Hole	Lot 265 Stump Hole
Chainage (m)	Centre	Centre	Centre	Top of Street	Centre
Location Offset (m)	**	**	**	Centre	**
Layer / Reduced Level	-600	-1400	-900	-1000	-1400
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty Clay
Test Depth (mm)	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	5	0	0	4	0
Field Wet Density (FWD) t/m ³	2.20	2.02	2.08	2.13	2.21
Field Dry Density (FDD) t/m ³	**	**	**	**	**
Peak Converted Wet Density t/m ³	**	2.09	2.12	**	2.29
Adjusted Peak Converted Wet Density t/m ³	2.11	**	**	2.11	**
Moisture Variation (Wv) %	**	0.5	-2.0	**	0.0
Adjusted Moisture Variation %	2.5	**	**	0.5	**
Hilf Density Ratio (%)	104.0	97.0	98.0	101.0	96.5
Compaction Method	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: P253261-14
Issue Number: 1
Date Issued: 12/11/2025
Client: Mainecivil
 9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18847
Date Sampled: 11/11/2025
Dates Tested: 11/11/2025 - 12/11/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat Stage 8
Material Source: Test Location

Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: joshl@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



TL

Approved Signatory: Josh Lagodzki
 CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1					
Sample Number	B25-18847F	B25-18847G	B25-18847H	B25-18847I	B25-18847J
Test Number	84	85	86	87	88
Date Tested	11/11/2025	11/11/2025	11/11/2025	11/11/2025	11/11/2025
Time Tested	11:28	11:31	11:36	11:42	11:47
Test Request #/Location	Lot 248a Stump Hole	Lot 248b Stump Hole	Small Dam	Lot 208/209 Stump Hole	Lot 209 Stump Hole
Chainage (m)	Centre	Centre	Centre	Centre	Centre
Location Offset (m)	**	**	**	**	**
Layer / Reduced Level	-1200	-1200	-2100	-1800	-1500
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty Clay
Test Depth (mm)	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	1.86	2.06	2.06	2.13	2.05
Field Dry Density (FDD) t/m ³	**	**	**	**	**
Peak Converted Wet Density t/m ³	2.08	2.08	2.18	2.08	2.06
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.0	-0.5	-1.5	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	90.0	99.0	94.5	102.5	99.5
Compaction Method	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P253261-15
Issue Number: 1
Date Issued: 13/11/2025
Client: Mainecivil
 9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18859
Date Sampled: 12/11/2025
Dates Tested: 12/11/2025 - 13/11/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat - Stage 8
Material Source: Test Location



Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: tylerw@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Tyler Webb

Snr. Field Technician

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1					
Sample Number	B25-18859A	B25-18859B	B25-18859C	B25-18859D	B25-18859E
Test Number	89	90	91	92	93
Date Tested	12/11/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025
Time Tested	08:20	08:29	08:35	08:43	14:12
Test Request #/Location	Retest for B25-18847H Small Dam	Large Dam Right Side	208/209 Stump Hole	210 Stump Hole	Lot 202
Chainage (m)	Centre	Right	Centre	Rear	Front
Location Offset (m)	**	**	**	**	Centre
Layer / Reduced Level	-2100	-3600	-1500	-1800	-1300
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay	Sandy Clay
Test Depth (mm)	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.03	2.16	2.13	2.18	2.20
Field Dry Density (FDD) t/m ³	**	**	**	**	**
Peak Converted Wet Density t/m ³	2.14	2.16	2.14	2.19	2.15
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	-1.0	-1.0	0.5	0.0	0.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	95.0	100.0	99.5	99.5	102.5
Compaction Method	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P253261-15
Issue Number: 1
Date Issued: 13/11/2025
Client: Mainecivil
 9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18859
Date Sampled: 12/11/2025
Dates Tested: 12/11/2025 - 13/11/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat - Stage 8
Material Source: Test Location



Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: tylerw@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



[Signature]

Approved Signatory: Tyler Webb

Snr. Field Technician

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1					
Sample Number	B25-18859F	B25-18859G	B25-18859H	B25-18859I	B25-18859J
Test Number	94	95	96	97	98
Date Tested	12/11/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025
Time Tested	14:17	14:22	14:28	14:31	14:37
Test Request #/Location	Lot 203	Lot 141 Stump Hole	Lot 265 Stump Hole	Lot 244 Stump Hole	Retest for B25-18847F Lot 248a Stump Hole
Chainage (m)	Front	Rear	Centre	Centre	Centre
Location Offset (m)	Centre	**	**	**	**
Layer / Reduced Level	-1300	-300	-1100	-900	-1200
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay
Test Depth (mm)	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.24	2.06	1.94	1.92	1.96
Field Dry Density (FDD) t/m ³	**	**	**	**	**
Peak Converted Wet Density t/m ³	2.22	2.05	2.08	2.09	2.10
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.0	3.5	3.0	3.0	-1.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	101.0	100.5	93.0	92.0	93.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: P253261-16
Issue Number: 3 - This version supersedes all previous issues
Reissue Reason: Test G Height changed to correct height. Client Request
Date Issued: 18/11/2025
Client: Mainecivil
 9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18868
Date Sampled: 13/11/2025
Dates Tested: 13/11/2025 - 14/11/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat - Stage 8
Material Source: Test Location

Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: tylerw@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



[Signature]

Approved Signatory: Tyler Webb

Snr. Field Technician

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1						
Sample Number	B25-18868A	B25-18868B	B25-18868C	B25-18868D	B25-18868E	B25-18868F
Test Number	99	100	101	102	103	104
Date Tested	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025
Time Tested	08:15	08:20	08:23	08:30	08:36	08:48
Test Request #/Location	Lot 239	Lot 240	Lot 241	Lot 242	Large Dam	Small Dam
Chainage (m)	Centre	Centre	Centre	Centre	Centre	Centre
Location Offset (m)	**	**	**	**	**	**
Layer / Reduced Level	-1000	-1000	-1200	-1200	-3300	-1800
Thickness of Layer (mm)	300	300	300	300	300	300
Soil Description	Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.18	2.10	2.17	2.18	2.17	2.13
Field Dry Density (FDD) t/m ³	**	**	**	**	**	**
Peak Converted Wet Density t/m ³	2.14	2.16	2.21	2.19	2.18	2.04
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	0.5	-0.5	0.5	-0.5	-0.5	-1.0
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	102.0	97.5	98.5	99.5	100.0	104.5
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: P253261-16
Issue Number: 3 - This version supersedes all previous issues
Reissue Reason: Test G Height changed to correct height. Client Request
Date Issued: 18/11/2025
Client: Mainecivil
 9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18868
Date Sampled: 13/11/2025
Dates Tested: 13/11/2025 - 14/11/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat - Stage 8
Material Source: Test Location

Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: tylerw@gts.com.au



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Tyler Webb

Snr. Field Technician

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1						
Sample Number	B25-18868G	B25-18868H	B25-18868I	B25-18868J	B25-18868K	
Test Number	105	106	107	108	109	
Date Tested	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	
Time Tested	14:05	14:09	14:14	14:20	14:24	
Test Request #/Location	Stump Hole 208/209	Lot 238	Lot 245	Lot 203	Lot 202	
Chainage (m)	Centre	Centre	Centre	Centre	Centre	
Location Offset (m)	**	**	**	**	**	
Layer / Reduced Level	-1200	-600	-900	-1000	-1000	
Thickness of Layer (mm)	300	300	300	300	300	
Soil Description	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay	
Test Depth (mm)	275	275	275	275	275	
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	0	0	0	
Field Wet Density (FWD) t/m ³	2.16	2.01	2.13	2.20	2.14	
Field Dry Density (FDD) t/m ³	**	**	**	**	**	
Peak Converted Wet Density t/m ³	2.22	2.07	2.08	2.19	2.14	
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	
Moisture Variation (Wv) %	0.0	2.5	1.5	0.5	0.5	
Adjusted Moisture Variation %	**	**	**	**	**	
Hilf Density Ratio (%)	97.5	97.0	102.5	100.0	99.5	
Compaction Method	Standard	Standard	Standard	Standard	Standard	
Remarks	**	**	**	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: P253261-17
Issue Number: 1
Date Issued: 18/11/2025
Client: Mainecivil
 9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18891
Date Sampled: 17/11/2025
Dates Tested: 17/11/2025 - 18/11/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat - Stage 8
Material Source: Test Location

Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: joshl@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



TL

Approved Signatory: Josh Lagodzki
 CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1						
Sample Number	B25-18891A	B25-18891B	B25-18891C	B25-18891D	B25-18891E	B25-18891F
Test Number	110	111	112	113	114	115
Date Tested	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025
Time Tested	10:48	10:56	11:00	11:10	11:26	11:15
Test Request #/Location	Lot 239	Lot 240	Lot 241	Lot 242	Big Dam	Little Dam
Chainage (m)	Centre	Centre	Centre	Centre	Centre	Centre
Location Offset (m)	**	**	**	**	**	**
Layer / Reduced Level	-700	-700	-900	-900	-3000	-1500
Thickness of Layer (mm)	300	300	300	300	300	300
Soil Description	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.16	2.11	2.12	2.18	2.08	2.04
Field Dry Density (FDD) t/m ³	**	**	**	**	**	**
Peak Converted Wet Density t/m ³	2.17	2.19	2.14	2.22	2.20	2.11
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	0.0	-0.5	0.0	0.0	0.5	0.5
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	99.5	96.5	99.0	98.0	95.0	97.0
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P253261-17
Issue Number: 1
Date Issued: 18/11/2025
Client: Mainecivil
 9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18891
Date Sampled: 17/11/2025
Dates Tested: 17/11/2025 - 18/11/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat - Stage 8
Material Source: Test Location



Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: joshl@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



TL

Approved Signatory: Josh Lagodzki
 CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1						
Sample Number	B25-18891G	B25-18891H	B25-18891I	B25-18891J	B25-18891K	B25-18891L
Test Number	116	117	118	119	120	121
Date Tested	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025
Time Tested	11:19	14:23	14:29	14:33	14:38	14:50
Test Request #/Location	B25-18847F Retest Lot 248a Stump Hole	Lot 238	Lot 245	Lot 246	Lot 247	18859I Retest Lot 244 Stump Hole
Chainage (m)	Centre	Centre	Centre	Centre	Centre	Centre
Location Offset (m)	**	**	**	**	**	**
Layer / Reduced Level	-1200	-300	-600	-300	-600	-900
Thickness of Layer (mm)	300	300	300	300	300	300
Soil Description	Gravelly Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0	0
Field Wet Density (FWD) t/m ³	1.96	2.23	2.20	2.15	2.14	2.05
Field Dry Density (FDD) t/m ³	**	**	**	**	**	**
Peak Converted Wet Density t/m ³	2.06	2.24	2.21	2.17	2.20	2.10
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	0.0	-0.5	0.0	0.0	0.0	1.0
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	95.5	99.5	99.5	99.0	97.0	97.5
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P253261-18
Issue Number: 1
Date Issued: 19/11/2025
Client: Mainecivil
9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18898
Date Sampled: 18/11/2025
Dates Tested: 18/11/2025 - 19/11/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat - Stage 8
Material Source: Test Location



Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: joshl@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Josh Lagodzki
CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1				
Sample Number	B25-18898A	B25-18898B	B25-18898C	B25-18898D
Test Number	122	123	124	125
Date Tested	18/11/2025	18/11/2025	18/11/2025	18/11/2025
Time Tested	10:44	10:45	10:52	10:58
Test Request #/Location	Lot 203	Lot 202	Lot 208/209 Stump Hole	Lot 210
Chainage (m)	Centre	Centre	Centre	Centre
Location Offset (m)	**	**	**	**
Layer / Reduced Level	-700	-700	-900	-1500
Thickness of Layer (mm)	300	300	300	300
Soil Description	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay
Test Depth (mm)	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	3	0	0
Field Wet Density (FWD) t/m ³	2.18	2.18	2.20	2.12
Field Dry Density (FDD) t/m ³	**	**	**	**
Peak Converted Wet Density t/m ³	2.19	**	2.20	2.15
Adjusted Peak Converted Wet Density t/m ³	**	2.14	**	**
Moisture Variation (Wv) %	0.5	**	0.5	-0.5
Adjusted Moisture Variation %	**	2.0	**	**
Hilf Density Ratio (%)	100.0	102.0	100.0	98.5
Compaction Method	Standard	Standard	Standard	Standard
Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P253261-18
Issue Number: 1
Date Issued: 19/11/2025
Client: Mainecivil
9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18898
Date Sampled: 18/11/2025
Dates Tested: 18/11/2025 - 19/11/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat - Stage 8
Material Source: Test Location



Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: joshl@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Josh Lagodzki
CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1				
Sample Number	B25-18898E	B25-18898F	B25-18898G	B25-18898H
Test Number	126	127	128	129
Date Tested	18/11/2025	18/11/2025	18/11/2025	18/11/2025
Time Tested	15:14	15:19	15:23	15:26
Test Request #/Location	Lot 238	Lot 245	Lot 246	Lot 247
Chainage (m)	Centre	Centre	Centre	Centre
Location Offset (m)	**	**	**	**
Layer / Reduced Level	FSL	-300	FSL	-300
Thickness of Layer (mm)	300	300	300	300
Soil Description	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay
Test Depth (mm)	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0
Field Wet Density (FWD) t/m ³	2.02	2.15	2.08	2.30
Field Dry Density (FDD) t/m ³	**	**	**	**
Peak Converted Wet Density t/m ³	2.15	2.13	2.13	2.19
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	0.5	1.5	-0.5	0.5
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	94.0	101.0	97.5	105.0
Compaction Method	Standard	Standard	Standard	Standard
Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: P253261-19
Issue Number: 1
Date Issued: 21/11/2025
Client: Mainecivil
 9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18899
Date Sampled: 19/11/2025
Dates Tested: 19/11/2025 - 20/11/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat - Stage 8
Material Source: Test Location

Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: tylerw@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



[Signature]

Approved Signatory: Tyler Webb

Snr. Field Technician

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1						
Sample Number	B25-18899A	B25-18899B	B25-18899C	B25-18899D	B25-18899E	B25-18899F
Test Number	130	131	132	133	134	135
Date Tested	19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025
Time Tested	14:28	14:32	14:36	14:44	14:48	14:54
Test Request #/Location	Lot 202	Lot 203	Roadway / Mulla Mulla Way	Big Dam Backfill	Retest for B25-18898E Lot 238	Retest for B25-18859H Lot 265 Stump Hole
Chainage (m)	Centre	Centre	59.06m	Centre	Centre	Centre
Location Offset (m)	**	**	1m R from CL	**	**	**
Layer / Reduced Level	-400	-400	Subgrade	-2700	FSL	-1100
Thickness of Layer (mm)	300	300	300	300	300	300
Soil Description	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	1	0	0	0
Field Wet Density (FWD) t/m ³	2.24	2.16	2.15	2.11	2.18	2.13
Field Dry Density (FDD) t/m ³	**	**	**	**	**	**
Peak Converted Wet Density t/m ³	2.15	2.18	**	2.11	2.19	2.17
Adjusted Peak Converted Wet Density t/m ³	**	**	2.05	**	**	**
Moisture Variation (Wv) %	1.5	0.5	**	3.0	0.0	0.5
Adjusted Moisture Variation %	**	**	3.5	**	**	**
Hilf Density Ratio (%)	104.0	99.0	105.0	100.0	99.5	98.0
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: P253261-20
Issue Number: 1
Date Issued: 26/11/2025
Client: Mainecivil
9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18934
Date Sampled: 25/11/2025
Dates Tested: 25/11/2025 - 26/11/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat - Stage 8
Material Source: Test Location

Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: tylerw@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Tyler Webb

Snr. Field Technician

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1				
Sample Number	B25-18934A	B25-18934B	B25-18934C	B25-18934D
Test Number	136	137	138	139
Date Tested	25/11/2025	25/11/2025	25/11/2025	25/11/2025
Time Tested	10:55	10:58	11:03	11:13
Test Request #/Location	House Blocks	House Blocks	House Blocks / Dam Backfill	House Blocks
Chainage (m)	Lot 202	Lot 203	Big Dam	Lot 239
Location Offset (m)	Front Centre	Centre	Centre	Centre
Layer / Reduced Level	FSL	FSL	-2400	-400
Thickness of Layer (mm)	300	300	300	300
Soil Description	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay
Test Depth (mm)	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0
Field Wet Density (FWD) t/m ³	2.24	2.17	2.13	2.20
Field Dry Density (FDD) t/m ³	**	**	**	**
Peak Converted Wet Density t/m ³	2.14	2.14	2.14	2.17
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	1.5	0.5	0.0	0.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	104.5	101.5	99.5	101.0
Compaction Method	Standard	Standard	Standard	Standard
Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P253261-20
Issue Number: 1
Date Issued: 26/11/2025
Client: Mainecivil
9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18934
Date Sampled: 25/11/2025
Dates Tested: 25/11/2025 - 26/11/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat - Stage 8
Material Source: Test Location



Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: tylerw@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Tyler Webb

Snr. Field Technician

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1				
Sample Number	B25-18934E	B25-18934F	B25-18934G	
Test Number	140	141	142	
Date Tested	25/11/2025	25/11/2025	25/11/2025	
Time Tested	11:15	11:18	11:23	
Test Request #/Location	House Blocks	House Blocks	House Blocks	
Chainage (m)	Lot 240	Lot 241	Lot 242	
Location Offset (m)	Centre	Centre	Centre	
Layer / Reduced Level	-400	-600	-600	
Thickness of Layer (mm)	300	300	300	
Soil Description	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	
Test Depth (mm)	275	275	275	
Sieve used to determine oversize (mm)	19.0	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	0	
Field Wet Density (FWD) t/m ³	2.15	2.16	2.19	
Field Dry Density (FDD) t/m ³	**	**	**	
Peak Converted Wet Density t/m ³	2.18	2.17	2.23	
Adjusted Peak Converted Wet Density t/m ³	**	**	**	
Moisture Variation (Wv) %	0.0	-1.0	-0.5	
Adjusted Moisture Variation %	**	**	**	
Hilf Density Ratio (%)	98.5	100.0	98.0	
Compaction Method	Standard	Standard	Standard	
Remarks	**	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: P253261-21
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason: Amended B25-18941G Layer
Date Issued: 27/11/2025
Client: Mainecivil
 9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18941
Date Sampled: 26/11/2025
Dates Tested: 26/11/2025 - 27/11/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat - Stage 8
Material Source: Test Location

Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: joshl@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



TL

Approved Signatory: Josh Lagodzki
 CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1						
Sample Number	B25-18941A	B25-18941B	B25-18941C	B25-18941D	B25-18941E	B25-18941F
Test Number	143	144	145	146	147	148
Date Tested	26/11/2025	26/11/2025	26/11/2025	26/11/2025	26/11/2025	26/11/2025
Time Tested	09:11	09:15	09:19	09:23	09:28	09:32
Test Request #/Location	House Blocks	House Blocks	House Blocks	House Blocks	House Blocks	House Blocks
Chainage (m)	Lot 239	Lot 240	Lot 241	Lot 242	Lot 247	Lot 245
Location Offset (m)	Centre	Centre	Centre	Centre	Centre	Centre
Layer / Reduced Level	FSL	FSL	-300	-300	FSL	FSL
Thickness of Layer (mm)	300	300	300	300	300	300
Soil Description	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.13	2.09	2.11	2.16	2.16	2.22
Field Dry Density (FDD) t/m ³	**	**	**	**	**	**
Peak Converted Wet Density t/m ³	2.17	2.12	2.14	2.16	2.19	2.19
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	-0.5	-1.5	-0.5	-1.0	-0.5	0.0
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	98.0	98.5	98.5	100.0	98.5	101.0
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: P253261-21
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason: Amended B25-18941G Layer
Date Issued: 27/11/2025
Client: Mainecivil
 9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18941
Date Sampled: 26/11/2025
Dates Tested: 26/11/2025 - 27/11/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat - Stage 8
Material Source: Test Location

Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: joshl@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



TL

Approved Signatory: Josh Lagodzki
 CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1						
Sample Number	B25-18941G	B25-18941H	B25-18941I	B25-18941J	B25-18941K	B25-18941L
Test Number	149	150	151	152	153	154
Date Tested	26/11/2025	26/11/2025	26/11/2025	26/11/2025	26/11/2025	26/11/2025
Time Tested	14:34	14:45	14:42	14:47	14:50	14:52
Test Request #/Location	House Blocks Big Dam	House Blocks Lot 243	House Blocks Lot 244	House Blocks Lot 266	House Blocks Lot 265	House Blocks Lot 264
Chainage (m)	See map	See map	See map	See map	See map	See map
Location Offset (m)	**	**	**	**	**	**
Layer / Reduced Level	-2100	-600	-600	-600	-600	-300
Thickness of Layer (mm)	300	300	300	300	300	300
Soil Description	Gravelly Clay	Gravelly Clay	Gravelly Clay	Gravelly Clay	Gravelly Clay	Gravelly Clay
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.17	2.16	2.17	2.13	2.20	2.13
Field Dry Density (FDD) t/m ³	**	**	**	**	**	**
Peak Converted Wet Density t/m ³	2.18	2.15	2.17	2.10	2.14	2.15
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	-0.5	0.5	0.0	0.5	0.5	0.0
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	99.5	100.5	100.0	101.5	103.0	99.0
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P253261-22
Issue Number: 1
Date Issued: 01/12/2025
Client: Mainecivil
9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18953
Date Sampled: 28/11/2025
Dates Tested: 28/11/2025 - 28/11/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat - Stage 8
Material Source: Test Location



Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: cobanl@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Coban Lenten
Gtss-coban

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1

Sample Number	B25-18953A	B25-18953B	B25-18953C	B25-18953D	B25-18953E
Test Number	155	156	157	158	159
Date Tested	28/11/2025	28/11/2025	28/11/2025	28/11/2025	28/11/2025
Time Tested	08:02	08:06	08:08	08:17	08:23
Test Request #/Location	House Blocks	House Blocks	House Blocks	House Blocks	House Blocks
Chainage (m)	Lot 266	Lot 265	Lot 264	Lot 263	Lot 248
Location Offset (m)	Centre	Centre	Centre	Centre	Centre
Layer / Reduced Level	-300	-300	FSL	-600	-600
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay
Test Depth (mm)	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.24	2.12	2.18	2.24	2.15
Field Dry Density (FDD) t/m ³	**	**	**	**	**
Peak Converted Wet Density t/m ³	2.18	2.15	2.15	2.18	2.07
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.0	0.0	0.0	0.0	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	103.0	98.0	101.5	103.0	104.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P253261-23
Issue Number: 1
Date Issued: 03/12/2025
Client: Mainecivil
 9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18962
Date Sampled: 01/12/2025
Dates Tested: 01/12/2025 - 03/12/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat - Stage 8
Material Source: Test Location



Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: tylerw@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



[Signature]

Approved Signatory: Tyler Webb

Snr. Field Technician

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1						
Sample Number	B25-18962A	B25-18962B	B25-18962C	B25-18962D	B25-18962E	B25-18962F
Test Number	160	161	162	163	164	165
Date Tested	02/12/2025	02/12/2025	02/12/2025	02/12/2025	02/12/2025	02/12/2025
Time Tested	08:07	08:14	08:17	08:20	08:24	08:29
Test Request #/Location	House Blocks Lot 263	House Blocks Lot 244	House Blocks Lot 243	House Blocks Lot 265	House Blocks Lot 266	House Blocks Lot 248
Chainage (m)	Centre	Centre	Centre	Centre	Centre	Centre
Location Offset (m)	**	**	**	**	**	**
Layer / Reduced Level	-300	-300	-300	FSL	FSL	-300
Thickness of Layer (mm)	300	300	300	300	300	300
Soil Description	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	4	0
Field Wet Density (FWD) t/m ³	2.20	2.19	2.19	2.21	2.13	2.16
Field Dry Density (FDD) t/m ³	**	**	**	**	**	**
Peak Converted Wet Density t/m ³	2.17	2.14	2.17	2.13	**	2.14
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	2.14	**
Moisture Variation (Wv) %	0.0	0.5	0.0	0.5	**	0.5
Adjusted Moisture Variation %	**	**	**	**	0.0	**
Hilf Density Ratio (%)	102.0	102.5	101.0	104.0	99.5	100.5
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: P253261-23
Issue Number: 1
Date Issued: 03/12/2025
Client: Mainecivil
 9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 18962
Date Sampled: 01/12/2025
Dates Tested: 01/12/2025 - 03/12/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat - Stage 8
Material Source: Test Location

Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: tylerw@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



[Signature]

Approved Signatory: Tyler Webb

Snr. Field Technician

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1						
Sample Number	B25-18962G	B25-18962H	B25-18962I	B25-18962J	B25-18962K	
Test Number	166	167	168	169	170	
Date Tested	02/12/2025	02/12/2025	02/12/2025	02/12/2025	02/12/2025	
Time Tested	08:42	14:15	14:21	14:28	14:37	
Test Request #/Location	House Blocks Small Dam	House Blocks Lot 211	House Blocks Lot 212	House Blocks Lot 213	Dam Backfill Big Dam	
Chainage (m)	Centre	Centre	Centre	Centre	Centre	
Location Offset (m)	**	**	**	**	**	
Layer / Reduced Level	-1500	-1500	-1500	-1200	-1800	
Thickness of Layer (mm)	300	300	300	300	300	
Soil Description	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	
Test Depth (mm)	275	275	275	275	275	
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	0	0	0	
Field Wet Density (FWD) t/m ³	2.13	2.05	2.08	2.09	2.13	
Field Dry Density (FDD) t/m ³	**	**	**	**	**	
Peak Converted Wet Density t/m ³	2.16	2.14	2.16	2.06	2.15	
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	
Moisture Variation (Wv) %	-0.5	-0.5	0.0	1.5	-2.0	
Adjusted Moisture Variation %	**	**	**	**	**	
Hilf Density Ratio (%)	98.5	96.0	96.5	101.5	99.0	
Compaction Method	Standard	Standard	Standard	Standard	Standard	
Remarks	**	**	**	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P253261-24
Issue Number: 1
Date Issued: 17/12/2025
Client: Mainecivil
9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 19045
Date Sampled: 15/12/2025
Dates Tested: 15/12/2025 - 16/12/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat
Material Source: Test Location



Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: joshl@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Josh Lagodzki
CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1				
Sample Number	B25-19045A	B25-19045B	B25-19045C	B25-19045D
Test Number	171	172	173	174
Date Tested	15/12/2025	15/12/2025	15/12/2025	15/12/2025
Time Tested	14:57	15:02	15:11	15:17
Test Request #/Location	Lot 248	Small Dam	Lot 211	Lot 212
Chainage (m)	Centre	Centre	Centre	Centre
Location Offset (m)	**	**	**	**
Layer / Reduced Level	FSL	-1200	-1200	-1200
Thickness of Layer (mm)	300	300	300	300
Soil Description	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty Clay
Test Depth (mm)	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0
Field Wet Density (FWD) t/m ³	2.11	2.21	1.99	2.14
Field Dry Density (FDD) t/m ³	**	**	**	**
Peak Converted Wet Density t/m ³	2.08	2.18	2.05	2.05
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	3.5	2.5	4.0	3.5
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	101.5	101.5	97.5	104.0
Compaction Method	Standard	Standard	Standard	Standard
Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: P253261-24
Issue Number: 1
Date Issued: 17/12/2025
Client: Mainecivil
9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 19045
Date Sampled: 15/12/2025
Dates Tested: 15/12/2025 - 16/12/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat
Material Source: Test Location

Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: joshl@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Josh Lagodzki
CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1				
Sample Number	B25-19045E	B25-19045F	B25-19045G	B25-19045H
Test Number	175	176	177	178
Date Tested	15/12/2025	15/12/2025	15/12/2025	15/12/2025
Time Tested	15:24	15:35	15:38	15:41
Test Request #/Location	Lot 213	Lot 243	Lot 244	Lot 263
Chainage (m)	Centre	Centre	Centre	Centre
Location Offset (m)	**	**	**	**
Layer / Reduced Level	-900	FSL	FSL	FSL
Thickness of Layer (mm)	300	300	300	300
Soil Description	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty Clay
Test Depth (mm)	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	**
Field Wet Density (FWD) t/m ³	2.13	2.26	2.22	2.22
Field Dry Density (FDD) t/m ³	**	**	**	**
Peak Converted Wet Density t/m ³	2.06	2.13	2.12	2.16
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	4.0	1.5	1.0	0.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	103.5	106.0	104.5	102.5
Compaction Method	Standard	Standard	Standard	Standard
Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P253261-25
Issue Number: 1
Date Issued: 17/12/2025
Client: Mainecivil
9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 19054
Date Sampled: 16/12/2025
Dates Tested: 16/12/2025 - 17/12/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat
Material Source: Test Location



Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: cobanl@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Coban Lenten
Gtss-coban

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1				
Sample Number	B25-19054A	B25-19054B	B25-19054C	B25-19054D
Test Number	179	180	181	182
Date Tested	16/12/2025	16/12/2025	16/12/2025	16/12/2025
Time Tested	14:34	14:41	14:43	14:53
Test Request #/Location	Stage 8 Bushland Way	Stage 8 Bushland Way / Mulla Mulla Way Intersection	Stage 8 Mulla Mulla Way / Bushland Way Intersection	Stage 8 Mulla Mulla Way
Chainage (m)	205.40	0.00	20.25	47.58
Location Offset (m)	0m from CL	0m from CL	0m from CL	0m from CL
Layer / Reduced Level	-250	-250	-250	-250
Thickness of Layer (mm)	200	300	300	300
Soil Description	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay
Test Depth (mm)	175	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0
Field Wet Density (FWD) t/m ³	2.22	2.29	2.25	2.24
Field Dry Density (FDD) t/m ³	**	**	**	**
Peak Converted Wet Density t/m ³	2.05	2.10	2.04	2.12
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	4.5	3.0	4.5	4.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	108.0	109.5	110.5	106.0
Compaction Method	Standard	Standard	Standard	Standard
Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P253261-26
Issue Number: 1
Date Issued: 14/01/2026
Client: Mainecivil
9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 19112
Date Sampled: 14/01/2026
Dates Tested: 14/01/2026 - 14/01/2026
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat
Material Source: Test Location



Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: tylerw@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Tyler Webb
Snr. Field Technician
Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B26-19112A	B26-19112B	
Test Number	183	184	
Date Tested	14/01/2026	14/01/2026	
Time Tested	11:05	11:10	
Test Request #/Location	Little Dam	Big Dam	
Chainage (m)	Refer to Plan	Refer to Plan	
Location Offset (m)	**	**	
Layer / Reduced Level	-900	-1500	
Thickness of Layer (mm)	300	300	
Soil Description	Gravelly Silty Clay	Gravelly Silty Clay	
Test Depth (mm)	275	275	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m ³	2.22	2.13	
Field Dry Density (FDD) t/m ³	**	**	
Peak Converted Wet Density t/m ³	2.18	2.18	
Adjusted Peak Converted Wet Density t/m ³	**	**	
Moisture Variation (Wv) %	-0.5	-0.5	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	102.0	97.5	
Compaction Method	Standard	Standard	
Remarks	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P253261-27
Issue Number: 1
Date Issued: 19/01/2026
Client: Mainecivil
9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 19139
Date Sampled: 19/01/2026
Dates Tested: 19/01/2026 - 19/01/2026
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat
Material Source: Test Location



Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: tylerw@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Tyler Webb
Snr. Field Technician
Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B26-19139A	B26-19139B	
Test Number	185	186	
Date Tested	19/01/2026	19/01/2026	
Time Tested	07:47	07:53	
Test Request #/Location	Large Dam	Small Dam	
Chainage (m)	Centre	Centre	
Location Offset (m)	**	**	
Layer / Reduced Level	-1200	-600	
Thickness of Layer (mm)	300	300	
Soil Description	Sandy Gravelly Clay	Sandy Gravelly Clay	
Test Depth (mm)	275	275	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m ³	2.10	2.09	
Field Dry Density (FDD) t/m ³	**	**	
Peak Converted Wet Density t/m ³	2.14	2.17	
Adjusted Peak Converted Wet Density t/m ³	**	**	
Moisture Variation (Wv) %	1.0	0.0	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	98.5	96.5	
Compaction Method	Standard	Standard	
Remarks	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P253261-28
Issue Number: 1
Date Issued: 27/01/2026
Client: Mainecivil
9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 19193
Date Sampled: 23/01/2026
Dates Tested: 23/01/2026 - 27/01/2026
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat
Material Source: Test Location



Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: tylerw@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Tyler Webb
Snr. Field Technician
Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B26-19193A	B26-19193B	
Test Number	187	188	
Date Tested	23/01/2026	23/01/2026	
Time Tested	13:14	13:21	
Test Request #/Location	Small Dam	Large Dam Lot 235	
Chainage (m)	Centre	Centre	
Location Offset (m)	**	**	
Layer / Reduced Level	-300	-1200	
Thickness of Layer (mm)	300	300	
Soil Description	Sandy Gravelly Clay	Sandy Gravelly Clay	
Test Depth (mm)	275	275	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m ³	2.12	2.04	
Field Dry Density (FDD) t/m ³	**	**	
Peak Converted Wet Density t/m ³	2.14	2.12	
Adjusted Peak Converted Wet Density t/m ³	**	**	
Moisture Variation (Wv) %	0.5	1.5	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	99.5	96.5	
Compaction Method	Standard	Standard	
Remarks	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P253261-29
Issue Number: 1
Date Issued: 02/02/2026
Client: Mainecivil
9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 19246
Date Sampled: 02/02/2026 8:00
Dates Tested: 02/02/2026 - 02/02/2026
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat
Material Source: Test Location



Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: joshl@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Josh Lagodzki
CMT Manager

Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B26-19246A	B26-19246B	B26-19246C
Test Number	189	190	191
Date Tested	02/02/2026	02/02/2026	02/02/2026
Time Tested	10:33	10:37	10:43
Test Request #/Location	Large Dam Lot 237	Large Dam Lot 236	Lot 213
Chainage (m)	**	**	**
Location Offset (m)	Centre	Centre	Centre
Layer / Reduced Level	-1200	-1200	-600
Thickness of Layer (mm)	300	300	300
Soil Description	Sandy Gravelly Clay	Sandy Gravelly Clay	Sandy Gravelly Clay
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	5
Field Wet Density (FWD) t/m ³	2.15	2.08	2.06
Field Dry Density (FDD) t/m ³	**	**	**
Peak Converted Wet Density t/m ³	2.14	2.12	**
Adjusted Peak Converted Wet Density t/m ³	**	**	2.13
Moisture Variation (Wv) %	0.0	0.0	**
Adjusted Moisture Variation %	**	**	2.0
Hilf Density Ratio (%)	100.5	98.0	96.5
Compaction Method	Standard	Standard	Standard
Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P253261-30
Issue Number: 1
Date Issued: 03/02/2026
Client: Mainecivil
 9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 19253
Date Sampled: 03/02/2026
Dates Tested: 03/02/2026 - 03/02/2026
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat
Material Source: Test Location



Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: tylerw@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



[Signature]

Approved Signatory: Tyler Webb
 Snr. Field Technician

Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1						
Sample Number	B26-19253A	B26-19253B	B26-19253C	B26-19253D	B26-19253E	B26-19253F
Test Number	192	193	194	195	196	197
Date Tested	03/02/2026	03/02/2026	03/02/2026	03/02/2026	03/02/2026	03/02/2026
Time Tested	08:54	08:58	09:01	09:07	09:17	09:21
Test Request #/Location	Stage 8 Lot 237/Big Dam	Stage 8 Lot 236/Big Dam	Stage 8 Lot 235/Big Dam	Stage 8 Lot Small Dam	Stage 8 Lot 211	Stage 8 Lot 212
Chainage (m)	Refer to Plan	Refer to Plan	Refer to Plan	Refer to Plan	Refer to Plan	Refer to Plan
Location Offset (m)	**	**	**	**	**	**
Layer / Reduced Level	-900	-900	-900	FSL	-900	-900
Thickness of Layer (mm)	300	300	300	300	300	300
Soil Description	Sandy Gravelly Clay	Sandy Gravelly Clay	Sandy Gravelly Clay	Sandy Gravelly Clay	Sandy Gravelly Clay	Sandy Gravelly Clay
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.19	2.10	2.13	2.05	2.06	2.03
Field Dry Density (FDD) t/m ³	**	**	**	**	**	**
Peak Converted Wet Density t/m ³	2.12	2.17	2.16	2.06	2.17	2.16
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	0.0	0.0	-0.5	1.0	0.0	0.0
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	103.0	97.0	98.5	99.0	95.0	93.5
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: P253261-31
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason: Heights updated
Date Issued: 06/02/2026
Client: Mainecivil
 9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 19271
Date Sampled: 04/02/2026
Dates Tested: 04/02/2026 - 04/02/2026
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat
Material Source: Test Location

Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: tylerw@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Tyler Webb

Snr. Field Technician

Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1					
Sample Number	B26-19271A	B26-19271B	B26-19271C	B26-19271D	B26-19271E
Test Number	198	199	200	201	202
Date Tested	04/02/2026	04/02/2026	04/02/2026	04/02/2026	04/02/2026
Time Tested	08:47	08:51	08:55	09:03	09:10
Test Request #/Location	Stage 8 Lot 211	B26-19253F Retest Lot 212	Stage 8 Lot 213	Stage 8 Lot 210	Stage 8 Lot Big Dam
Chainage (m)	Centre	Centre	Centre	Centre	Centre
Location Offset (m)	**	**	**	**	**
Layer / Reduced Level	-600	-900	-300	-1200	-900
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Sandy Gravelly Clay	Sandy Gravelly Clay	Sandy Gravelly Clay	Sandy Gravelly Clay	Sandy Gravelly Clay
Test Depth (mm)	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	3	0	0	0
Field Wet Density (FWD) t/m ³	2.16	2.13	2.13	2.17	2.08
Field Dry Density (FDD) t/m ³	**	**	**	**	**
Peak Converted Wet Density t/m ³	2.16	**	2.18	2.18	2.15
Adjusted Peak Converted Wet Density t/m ³	**	2.19	**	**	**
Moisture Variation (Wv) %	0.0	**	-1.0	0.0	0.0
Adjusted Moisture Variation %	**	-0.5	**	**	**
Hilf Density Ratio (%)	100.0	97.0	97.5	99.5	97.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P253261-32
Issue Number: 1
Date Issued: 07/02/2026
Client: Mainecivil
9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 19280
Date Sampled: 05/02/2026
Dates Tested: 05/02/2026 - 06/02/2026
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat
Material Source: Test Location



Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: tylerw@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Tyler Webb
Snr. Field Technician
Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B26-19280A	B26-19280B	B26-19280C
Test Number	203	204	205
Date Tested	05/02/2026	05/02/2026	05/02/2026
Time Tested	08:29	08:32	08:34
Test Request #/Location	Stage 8 House Blocks / Big Dam Backfill	Stage 8 House Blocks / Big Dam Backfill	Stage 8 House Blocks / Big Dam Backfill
Chainage (m)	Lot 236	Lot 237	Lot 235
Location Offset (m)	Centre	Centre	Centre
Layer / Reduced Level	-600	-600	-600
Thickness of Layer (mm)	300	300	300
Soil Description	Sandy Gravelly Clay	Sandy Gravelly Clay	Sandy Gravelly Clay
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	11	0
Field Wet Density (FWD) t/m ³	2.15	2.18	2.16
Field Dry Density (FDD) t/m ³	**	**	**
Peak Converted Wet Density t/m ³	2.11	**	2.14
Adjusted Peak Converted Wet Density t/m ³	**	2.12	**
Moisture Variation (Wv) %	0.5	**	0.5
Adjusted Moisture Variation %	**	1.5	**
Hilf Density Ratio (%)	102.0	102.5	101.0
Compaction Method	Standard	Standard	Standard
Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: P253261-33
Issue Number: 1
Date Issued: 07/02/2026
Client: Mainecivil
9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 19297
Date Sampled: 06/02/2026
Dates Tested: 06/02/2026 - 07/02/2026
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat
Material Source: Test Location

Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: tylerw@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Tyler Webb
Snr. Field Technician
Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1				
Sample Number	B26-19297A	B26-19297B	B26-19297C	B26-19297D
Test Number	206	207	208	209
Date Tested	06/02/2026	06/02/2026	06/02/2026	06/02/2026
Time Tested	13:08	13:15	13:19	13:24
Test Request #/Location	Stage 8 / House Blocks Big Dam	Stage 8 / House Blocks Lot 210 Centre	Stage 8 / House Blocks Lot 211 Centre	Stage 8 / House Blocks Lot 212 Centre
Layer / Reduced Level	-600	-900	-300	-600
Thickness of Layer (mm)	300	300	300	300
Soil Description	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay
Test Depth (mm)	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0
Field Wet Density (FWD) t/m ³	2.02	2.18	2.17	2.15
Field Dry Density (FDD) t/m ³	**	**	**	**
Peak Converted Wet Density t/m ³	2.07	2.10	2.10	2.10
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	2.5	1.5	1.5	2.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	97.5	104.0	103.0	102.5
Compaction Method	Standard	Standard	Standard	Standard
Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P253261-36
Issue Number: 1
Date Issued: 13/02/2026
Client: Mainecivil
9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 19340
Date Sampled: 12/02/2026
Dates Tested: 12/02/2026 - 13/02/2026
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat
Material Source: Test Location



Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: tylerw@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Tyler Webb
Snr. Field Technician
Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B26-19340A	B26-19340B	B26-19340C
Test Number	212	213	214
Date Tested	12/02/2026	12/02/2026	12/02/2026
Time Tested	09:43	09:47	09:51
Test Request #/Location	Stage 8 House Blocks	Stage 8 House Blocks	Stage 8 House Blocks
Chainage (m)	Lot 237	Lot 236	Lot 235
Location Offset (m)	Centre	Centre	Centre
Layer / Reduced Level	-300	-300	-300
Thickness of Layer (mm)	300	300	300
Soil Description	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	2.16	2.11	2.14
Field Dry Density (FDD) t/m ³	**	**	**
Peak Converted Wet Density t/m ³	2.10	2.06	2.12
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	1.0	0.5	0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	102.5	103.0	101.0
Compaction Method	Standard	Standard	Standard
Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: P253261-37
Issue Number: 1
Date Issued: 23/02/2026
Client: Mainecivil
 9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 19409
Date Sampled: 20/02/2026
Dates Tested: 20/02/2026 - 23/02/2026
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat
Material Source: Test Location

Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: tylerw@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Tyler Webb
 Snr. Field Technician
 Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1					
Sample Number	B26-19409A	B26-19409B	B26-19409C	B26-19409D	B26-19409E
Test Number	215	216	217	218	219
Date Tested	20/02/2026	20/02/2026	20/02/2026	20/02/2026	20/02/2026
Time Tested	09:57	10:01	10:08	10:19	10:26
Test Request #/Location	Stage 8 Lot 237 / Centre	Stage 8 Lot 236 / Centre	Stage 8 Lot 235 / Centre	Stage 8 Big Dam	Stage 8 Lot 210 / Centre
Layer / Reduced Level	FSL	FSL	FSL	-300	-600
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
Test Depth (mm)	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	13	0
Field Wet Density (FWD) t/m ³	2.07	2.12	2.14	2.06	2.02
Field Dry Density (FDD) t/m ³	**	**	**	**	**
Peak Converted Wet Density t/m ³	2.04	2.06	2.03	**	2.09
Adjusted Peak Converted Wet Density t/m ³	**	**	**	2.11	**
Moisture Variation (Wv) %	2.5	2.0	4.0	**	4.0
Adjusted Moisture Variation %	**	**	**	2.0	**
Hilf Density Ratio (%)	101.5	103.0	105.0	98.0	96.5
Compaction Method	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P253261-38
Issue Number: 1
Date Issued: 13/03/2026
Client: Mainecivil
 9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 19531
Date Sampled: 12/03/2026
Dates Tested: 12/03/2026 - 13/03/2026
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat
Material Source: Test Location



Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: tylerw@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Tyler Webb
 Snr. Field Technician
 Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1					
Sample Number	B26-19531A	B26-19531B	B26-19531C	B26-19531D	B26-19531E
Test Number	220	221	222	223	224
Date Tested	12/03/2026	12/03/2026	12/03/2026	12/03/2026	12/03/2026
Time Tested	10:30	10:35	10:39	10:43	10:46
Test Request #/Location	Stage 8 Lot 212 Centre	Stage 8 Lot 213 Centre	Stage 8 Lot 210 Centre	Stage 8 Lot 211 Centre	Stage 8 Big Dam Centre
Layer / Reduced Level	-300	FSL	-300	FSL	FSL
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
Test Depth (mm)	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.05	2.07	1.98	2.03	2.21
Field Dry Density (FDD) t/m ³	**	**	**	**	**
Peak Converted Wet Density t/m ³	1.97	2.08	2.04	2.02	2.18
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	3.0	0.5	0.5	2.5	0.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	104.0	99.5	97.5	100.5	101.5
Compaction Method	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P253261-39
Issue Number: 1
Date Issued: 08/04/2026
Client: Mainecivil
 9 Merrifield St, CASTLEMAINE Vic 3450
Contact: George Hodoras
Project Number: P253261
Project Name: Golden Grove Estate
Project Location: Jackass Flat
Work Request: 19693
Date Sampled: 07/04/2026
Dates Tested: 07/04/2026 - 08/04/2026
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Jackass Flat
Material Source: Test Location



Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550

Phone:

Email: cobanl@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



[Signature]

Approved Signatory: Coban Lenten
 Gtss-coban

Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1					
Sample Number	B26-19693A	B26-19693B	B26-19693C	B26-19693D	B26-19693E
Test Number	225	226	227	228	229
Date Tested	07/04/2026	07/04/2026	07/04/2026	07/04/2026	07/04/2026
Time Tested	12:36	12:41	12:49	12:57	13:02
Test Request #/Location	Stage 8 Lot 212	Stage 8 Lot 210	Stage 8 Lot 204	Stage 8 Lot 241	Stage 8 Lot 242
Chainage (m)	Centre	Centre	Centre	Centre	Centre
Location Offset (m)	**	**	**	**	**
Layer / Reduced Level	FSL	FSL	FSL	FSL	FSL
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
Test Depth (mm)	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.01	2.18	2.09	2.21	2.12
Field Dry Density (FDD) t/m ³	**	**	**	**	**
Peak Converted Wet Density t/m ³	2.09	2.15	2.05	2.15	2.08
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.5	1.0	4.5	2.0	1.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	96.5	101.5	102.0	103.0	102.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC