



EARTHWORKS CERTIFICATION
LEVEL 1 INSPECTION & TESTING PROGRAM

Courtney Drive
Upper Coomera
CCA Winslow

June 2025

PG-4116-A

Ref: PG-4116-A, 2024-08-26, LVR VER 1 (Stage 3)
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30th June, 2025

CCA Winslow

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ATTN: MICHAEL WILLIAMS

Dear Sir,

**EARTHWORKS CERTIFICATION - LEVEL 1 INSPECTION & TESTING PROGRAM –
PROPOSED RESIDENTIAL DEVELOPMENT – STAGE 3 - COURTNEY DRIVE,
UPPER COOMERA**

1.0 INTRODUCTION

This report summarises the results of the Level 1 Geotechnical Inspection and Testing program carried out by Pacific Geotech Pty Ltd at the above site between November 2023 and August 2024 during the bulk earthworks program.

The scope of the geotechnical services provided comprised the following:

- Assessment of the stripped surface prior to filling.
- General removal of organics and deleterious materials from the stripped surface and transported fill material. It should be noted that under the instructions of the Client, Pacific Geotech was prevented from stick picking while machines were in operation. As a result, a small volume of organic material is present within the lower layers of the fill material.
- Assessment and associated supervision of the removal of unsuitable material.
- Supervision and associated nuclear densometer testing of the placed fill material.

The fill material comprised initially of a sandy clay and gravelly clay fill material won for the upslope cut areas of the development site. As the cuts progressed, stronger less weathered and less fractured rock was encountered which initially broke down to a sandy gravelly clay and clayey sandy gravel with some cobbles and small boulders throughout. As these cuts progressed, the volume of boulders within the fill material increased and the volume of fines decreased. Whilst some effort was made to either break down or remove the over-sized particles from the fill mass, some over-sized particles are present within the material.



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The upper approximately 2.0m to 3.0m of the fill material comprised processed rock fill which was put through a crusher and generally broke down to a clayey sandy gravel (GC) with particles between 50mm and 75mm in size within the fill mass making up in the order of 20% to 25% of the total fill volume.

It should be noted that on several Lots, think topsoil in excess of 200mm in thickness has been placed. This topsoil was placed following the bulk earthworks operation and does not form part of this certification.

Supervision was generally carried out by Lyle Slater, Dave Trotman and Ian Masman of our office.

2.0 LEVEL 1 INSPECTION & TESTING PROGRAM

2.1 Project Specifications

The engineering inspection and testing program was carried out in general accordance with AS 3798-2007, 'Guidelines on earthworks for commercial and residential developments', Sections 8.2, 'Level 1 Inspection and Testing'.

Project compaction criteria for the earthworks adopted are summarised in Table 1.

TABLE 1 PROJECT COMPACTION SPECIFICATION

Location	Minimum Dry Density Ratio (%)	Moisture Specification
General Development Area	95	±2% of OMC
Behind Retaining Walls	95	±2% of OMC
Note: The recommended compaction is a percentage of the Maximum Dry Density determined by Australian Standard 1289 5.1.1 (Standard Compaction).		

2.1 Compaction Methodology

Compaction was generally carried out using the combination of a 12 tonne to 15 tonne, vibratory pad foot roller and a Cat 815 compactor.

Initially, general fill layers of approximately 300mm to 400mm (loose) layer thickness were placed. As the material became coarser and more difficult to break down, the fill layers were initially reduced to 150mm to 200mm loose layer thickness in order to more readily identify and remove or otherwise breakdown the over-sized rock particles. The fill layers then increased back to 300mm to 400mm resulting in an increase in oversize material within the fill mass. This is not to say the soil profile is not fit for purpose, just that some oversize material is present within the fill.

Proof rolling carried out at each fill later and at the completion of backfill works, generally indicated no appreciable movement. Areas which displayed excessive movement were generally reworked and a subsequent proof roll carried out.

2.2 Field Density Testing

Compaction control testing was carried out by nuclear field density testing (test method AS1289 5.8.1). Testing was carried out at a frequency in general accordance with AS 3798-2007, Table 8.1 'Frequency of Field Density Tests'. A total of 208 tests were undertaken during the backfill works within these Lots (including retests).

Typically, due to the coarse nature of the fill material, 'B' moulds were used to undertake the laboratory compaction tests in accordance with AS 1289. Further to this, due to difficulties in breaking down the material in the stronger, less weathered rock, prior to crushing the material, numerous tests could not be taken due to the nature of the rock fill.

The density test results are presented on the Dry Density Ratio Reports. The reports detail the test number, the date of the test, the location of the test and the relative level of the test location together with the test results.

It should be carefully noted that several density tests could not be tested in accordance with the laboratory test method due to the collected samples having greater than 20% of the mass of particles retained on the 37.5mm sieve. In some areas, the material was generally reworked until suitable testing using 'B' moulds could be undertaken.

It should be further noted that the moisture variation of several test results is outside specification. Attempts were made to recondition this material during the works to approximate OMC.

Where failures were recorded, retests were generally taken where appropriate tests could be taken in the recompacted material.

The reports are identified by the following report numbers. It should be noted that the attached test reports contain test results from Stages 1 and 3 as well as Stage 2. This is due to the bulk earthworks for Stages 1, 2 and 3 being carried out concurrently.

TABLE 2 TEST REPORT SUMMARY

Report Number	Sample Number	Location	Date of Test	Dry Density Ratio (%)	Moisture Ratio (%) ⁽¹⁾
PG-4116-A-7	G23-992A	527288m E, 6917135m N	30/10/23	91.0*	4.0
	G23-992B	527282m E, 6917202m N	30/10/23	95.5	3.0
	G23-992C	527303m E, 6917219m N	30/10/23	96.0	2.0
PG-4116-A-10	G23-1009A	527279m E, 6917203m N	3/11/23	91.0*	-2.0
	G23-1009B	527285m E, 6917133m N	3/11/23	95.0	-1.5
	G23-1009C	527284m E, 6917094m N	3/11/23	98.0	-2.5
	G23-1009D	527273m E, 6917086m N	3/11/23	95.0	0.0
PG-4116-A-11	G23-1011A	527292m E, 6917219m N	6/11/23	95.5	-2.0
	G23-1011B	527270m E, 6917203m N	6/11/23	93.0*	-0.5
	G23-1011C	527288m E, 6917164m N	6/11/23	97.0	1.0
	G23-1011D	527279m E, 6917133m N	6/11/23	96.5	-0.5
	G23-1011E	527279m E, 6917080m N	6/11/23	98.0	-0.5

Report Number	Sample Number	Location	Date of Test	Dry Density Ratio (%)	Moisture Ratio (%) ⁽¹⁾
PG-4116-A-12	G23-1018A	527235m E, 6917025m N	7/11/23	96.5	0.0
	G23-1018B	527275m E, 6917071m N	7/11/23	98.0	-0.5
	G23-1018C	527279m E, 6917118m N	7/11/23	90.0*	0.0
	G23-1018D	527280m E, 6917136m N	7/11/23	96.0	-1.5
	G23-1018E	527275m E, 6917207m N	7/11/23	95.0	0.0
	G23-1018F	527325m E, 6917216m N	7/11/23	99.0	0.0
PG-4116-A-13	G23-1024A	527278m E, 6917203m N	8/11/23	92.0*	1.5
	G23-1024B	527296m E, 6917223m N	8/11/23	90.5*	0.5
	G23-1024C	527277m E, 6917090m N	8/11/23	97.5	-0.5
	G23-1024D	527268m E, 6917068m N	8/11/23	98.5	-0.5
	G23-1024E	527293m E, 6917144m N	8/11/23	98.5	0.0
	G23-1024F	527271m E, 6917122m N	8/11/23	97.0	-1.5
PG-4116-A-14	G23-1026A	527265m E, 6917045m N	9/11/23	99.0	-0.5
	G23-1026B	527295m E, 6917081m N	9/11/23	93.5*	1.5
	G23-1026C	527296m E, 6917128m N	9/11/23	96.0	-1.5
	G23-1026D	527300m E, 6917159m N	9/11/23	97.0	0.0
	G23-1026I	527288m E, 6917135m N	9/11/23	96.5+	0.5
PG-4116-A-15	G23-1029A	527243m E, 6917018m N	10/11/23	95.5	0.0
	G23-1029B	527285m E, 6917111m N	10/11/23	96.0	-0.5
	G23-1029C	527319m E, 6917146m N	10/11/23	90.5*	0.5
	G23-1029D	527271m E, 6917169m N	10/11/23	95.0	0.0
	G23-1029E	527293m E, 6917208m N	10/11/23	101.0	1.0
PG-4116-A-16	G23-1035A	527315m E, 6917216m N	13/11/23	97.5	3.0
	G23-1035B	527300m E, 6917237m N	13/11/23	97.0	3.5
	G23-1035C	527277m E, 6917136m N	13/11/23	95.0	-1.0
	G23-1035D	527238m E, 6917023m N	13/11/23	97.0	0.0
PG-4116-A-17	G23-1042A	527254m E, 6917102m N	15/11/23	98.0	2.0
	G23-1042B	527239m E, 6917093m N	15/11/23	99.5	1.5
	G23-1042C	527291m E, 6917142m N	15/11/23	96.0	-0.5
	G23-1042D	527300m E, 6917153m N	15/11/23	97.0	-0.5
	G23-1042E	527327m E, 6917144m N	15/11/23	100.5	1.5
	G23-1042H	527270m E, 6917203m N	15/11/23	95.5+	-0.5
	G23-1042I	527279m E, 6917118m N	15/11/23	97.5+	-0.5
	G23-1042J	527278m E, 6917203m N	15/11/23	99.0+	1.5
PG-4116-A-18	G23-1037A	527331m E, 6917145m N	14/11/23	98.5	1.0
	G23-1037B	527304m E, 6917127m N	14/11/23	95.5	0.0
	G23-1037C	527224m E, 6917029m N	14/11/23	100.0	0.0
	G23-1037D	527235m E, 6917025m N	14/11/23	95.0	0.5
	G23-1037G	527279m E, 6917203m N	14/11/23	93.0+	2.0
PG-4116-A-19	G23-1047A	527297m E, 6917114m N	16/11/23	96.0	0.0
	G23-1047B	527281m E, 6917131m N	16/11/23	95.0	0.0
	G23-1047C	527247m E, 6917118m N	16/11/23	100.0	1.5
	G23-1047D	527281m E, 6917090m N	16/11/23	97.5	0.5
	G23-1047E	527236m E, 6917025m N	16/11/23	93.5*	1.5
	G23-1047F	527309m E, 6917193m N	16/11/23	96.0	-0.5
	G23-1047G	527303m E, 6917190m N	16/11/23	96.5	1.0
	G23-1047H	527314m E, 6917197m N	16/11/23	96.5	0.0
	G23-1047I	527296m E, 6917223m N	16/11/23	95.5+	-0.5
PG-4116-A-21	G23-1047K	527295m E, 6917081m N	16/11/23	99.5	1.0
	G23-1059A	527293m E, 6917201m N	20/11/23	96.5	0.0
	G23-1059B	527292m E, 6917140m N	20/11/23	96.5	0.5
	G23-1059C	527264m E, 6917134m N	20/11/23	100.0	0.0

Report Number	Sample Number	Location	Date of Test	Dry Density Ratio (%)	Moisture Ratio (%) ⁽¹⁾
	G23-1059D	527289m E, 6917086m N	20/11/23	99.0	0.5
	G23-1059E	527226m E, 6917022m N	20/11/23	100.0	0.5
PG-4116-A-22	G23-1055A	527232m E, 6917039m N	17/11/23	96.5	0.0
	G23-1055B	527259m E, 6917085m N	17/11/23	96.0	0.0
	G23-1055C	527301m E, 6917095m N	17/11/23	98.5	1.5
	G23-1055D	527270m E, 6917117m N	17/11/23	97.5	0.5
	G23-1055E	527318m E, 6917134m N	17/11/23	97.0	0.0
	G23-1055F	527316m E, 6917196m N	17/11/23	96.0	-0.5
	G23-1055G	527305m E, 6917178m N	17/11/23	97.0	-0.5
PG-4116-A-23	G23-1063B	527321m E, 6917142m N	22/11/23	98.5	1.0
	G23-1067C	527336m E, 6917132m N	22/11/23	98.0	-0.5
PG-4116-A-26	G23-1074C	527332m E, 6917205m N	28/11/23	97.0	-0.5
	G23-1074D	527335m E, 6917217m N	28/11/23	96.0	-1.0
	G23-1074E	527319m E, 6917146m N	28/11/23	90.5*	-2.0
	G23-1074F	527296m E, 6917142m N	28/11/23	95.5	0.0
PG-4116-A-27	G23-1088A	527312m E, 6917194m N	1/12/23	100.0	2.0
	G23-1088B	527318m E, 6917176m N	1/12/23	96.5	0.0
	G23-1088C	527336m E, 6917164m N	1/12/23	96.5	-0.5
	G23-1088F	527279m E, 6917203m N	1/12/23	97.5+	0.0
	G23-1088G	527236m E, 6917025m N	1/12/23	96.0+	-0.5
PG-4116-A-28	G23-1090A	527343m E, 6917159m N	4/12/23	95.0	-0.5
PG-4116-A-29	G23-1100C	527310m E, 6917120m N	5/12/23	100.5	0.5
	G23-1100D	527291m E, 6917107m N	5/12/23	97.5	0.5
PG-4116-A-30	G23-1107E	527319m E, 6917146m N	6/12/23	97.0+	-0.5
PG-4116-A-31	G23-1127A	527314m E, 6917165m N	11/12/23	99.0	2.0
	G23-1127C	527327m E, 6917188m N	11/12/23	96.0	-0.5
	G23-1127-D	527320m E, 6917206m N	11/12/23	95.5	2.5
PG-4116-A-32	G23-1133B	527321m E, 6917141m N	12/12/23	97.5	0.0
	G23-1133C	527298m E, 6917114m N	12/12/23	92.5*	0.5
	G23-1133D	527251m E, 6917189m N	12/12/23	99.5	2.0
PG-4116-A-33	G23-1146B	527316m E, 6917209m N	14/12/23	98.0	2.0
PG-4116-A-34	G23-1155A	527287m E, 6917155m N	15/12/23	94.0*	0.5
	G23-1155B	527313m E, 6917166m N	15/12/23	96.0	2.0
PG-4116-A-35	G23-1161C	527330m E, 6917195m N	19/12/23	#	#
	G23-1161D	527309m E, 6917160m N	19/12/23	#	#
	G23-1161E	527285m E, 6917146m N	19/12/23	#	#
PG-4116-A-36	G23-1140B	5273582m E, 6917150m N	13/12/23	98.0	2.0
PG-4116-A-37	G23-1166A	527246m E, 6917141m N	20/12/23	#	#
	G23-1166B	527261m E, 6917132m N	20/12/23	#	#
	G23-1166C	527279m E, 6917112m N	20/12/23	98.0	2.0
	G23-1166F	527298m E, 6917114m N	20/12/23	99.0+	1.5
	G23-1166G	527287m E, 6917155m N	20/12/23	97.0+	-0.5
PG-4116-A-38	G24-1177B	527327m E, 6917206m N	15/1/24	98.0	0.0
	G24-1177C	527317m E, 6917166m N	15/1/24	101.0	2.0
PG-4116-A-39	G24-1182A	527348m E, 6917232m N	23/1/24	#	#
PG-4116-A-41	G24-1190B	527341m E, 6917226m N	25/1/24	98.5	0.5
PG-4116-A-42	G24-1197B	527334m E, 6917229m N	2/2/24	100.5	1.5
PG-4116-A-43	G24-1200B	527316m E, 6917156m N	5/2/24	97.0	0.0
PG-4116-A-50	G24-1302A	527333m E, 6917216m N	21/3/24	99.5	2.5
PG-4116-A-52	G24-1340A	527319m E, 6917056m N	16/4/24	97.5	2.0
	G24-1340B	527307m E, 6917044m N	16/4/24	96.0	-0.5
PG-4116-A-53	G24-1343A	527301m E, 6917030m N	17/4/24	95.0	1.0

Report Number	Sample Number	Location	Date of Test	Dry Density Ratio (%)	Moisture Ratio (%) ⁽¹⁾
PG-4116-A-54	G24-1362A	527331m E, 6917101m N	19/4/24	98.5	0.5
	G24-1362B	527307m E, 6917047m N	19/4/24	98.5	2.5
	G24-1362C	527333m E, 6917041m N	19/4/24	97.5	0.0
	G24-1362D	527262m E, 6917038m N	19/4/24	96.0	-1.5
PG-4116-A-55	G24-1388A	527298m E, 6917041m N	7/5/24	103.0	0.5
	G24-1388B	527321m E, 6917062m N	7/5/24	102.5	0.0
PG-4116-A-56	G24-1398A	527328m E, 6917211m N	13/5/24	99.5	0.5
PG-4116-A-57	G24-1402A	527316m E, 6917200m N	14/5/24	98.5	2.5
	G24-1402B	527300m E, 6917163m N	14/5/24	99.0	2.5
PG-4116-A-58	G24-1416A	527343m E, 6917145m N	22/5/24	97.0	0.0
PG-4116-A-68	G24-1460A	527322m E, 6917093m N	4/6/24	96.5	2.5
	G24-1460B	527327m E, 6917129m N	4/6/24	96.0	2.0
	G24-1460C	527343m E, 6917108m N	4/6/24	98.0	2.5
PG-4116-A-70	G24-1466A	527319m E, 6917069m N	5/6/24	98.5	2.5
	G24-1466B	527290m E, 6917041m N	5/6/24	98.5	2.5
	G24-1466C	527276m E, 6917026m N	5/6/24	99.0	4.0
PG-4116-A-73	G24-1473A	527318m E, 6917065m N	6/6/24	100.5	-1.0
	G24-1473C	527278m E, 6917030m N	6/6/24	98.5	2.5
PG-4116-A-75	G24-1475A	527337m E, 6917081m N	7/6/24	99.5	2.5
	G24-1475B	527313m E, 6917065m N	7/6/24	96.5	0.0
	G24-1475C	527308m E, 6917035m N	7/6/24	98.5	0.5
	G24-1475D	527266m E, 6917011m N	7/6/24	98.5	-0.5
	G24-1475E	527299m E, 6917026m N	7/6/24	98.0	0.0
PG-4116-A-77	G24-1477A	527307m E, 6917063m N	10/6/24	96.0	2.5
	G24-1477B	527317m E, 6917063m N	10/6/24	100.5	4.5
	G24-1477C	527268m E, 6917018m N	10/6/24	100.0	3.0
PG-4116-A-79	G24-1492A	527313m E, 6917075m N	12/6/24	97.5	2.5
	G24-1492B	527302m E, 6917044m N	12/6/24	98.0	2.0
	G24-1492C	527274m E, 6917017m N	12/6/24	95.0	2.0
	G24-1492D	527332m E, 6917051m N	12/6/24	96.5	1.5
	G24-1492E	527312m E, 6917014m N	12/6/24	98.5	1.5
PG-4116-A-81	G24-1502A	527188m E, 6917060m N	14/6/24	95.5	2.0
PG-4116-A-82	G24-1506B	527290m E, 6917144m N	17/6/24	97.0	1.5
PG-4116-A-85	G24-1486A	527318m E, 6917053m N	11/6/24	96.0	2.5
	G24-1486B	527281m E, 6917017m N	11/6/24	99.5	3.5
PG-4116-A-86	G24-1507C	527269m E, 6917113m N	18/6/24	99.0	4.0
PG-4116-A-87	G24-1509A	527271m E, 6917038m N	19/6/24	101.0	4.0
	G24-1509B	527297m E, 6917055m N	19/6/24	99.0	4.5
	G24-1509C	527210m E, 6917047m N	19/6/24	96.0	2.5
PG-4116-A-88	G24-1511A	527211m E, 6917103m N	20/6/24	97.0	1.5
PG-4116-A-89	G24-1515A	527306m E, 6917068m N	21/6/24	102.0	2.0
	G24-1515B	527274m E, 6917029m N	21/6/24	99.0	2.0
	G24-1515C	527243m E, 6917006m N	21/6/24	96.0	-0.5
PG-4116-A-91	G24-1530A	527237m E, 6917008m N	26/6/24	96.5	0.5
PG-4116-A-92	G24-1542A	527819m E, 6917258m N	1/7/24	97.5	0.5
	G24-1542B	527241m E, 6917061m N	1/7/24	100.5	2.0
	G24-1542C	527208m E, 6917038m N	1/7/24	96.5	0.0
	G24-1542D	527236m E, 6917103m N	1/7/24	98.5	2.0
PG-4116-A-93	G24-1555A	527254m E, 6917106m N	12/7/24	98.0	0.0
	G24-1555B	527264m E, 6917083m N	12/7/24	96.5	-0.5
	G24-1555C	527245m E, 6917060m N	12/7/24	97.5	0.5

Report Number	Sample Number	Location	Date of Test	Dry Density Ratio (%)	Moisture Ratio (%) ⁽¹⁾
	G24-1555D	527264m E, 6917116m N	12/7/24	97.0	0.0
	G24-1555E	527231m E, 6917047m N	12/7/24	99.0	0.0
PG-4116-A-94	G24-1562A	527233m E, 6917150m N	16/7/24	98.5	-0.5
	G24-1562B	527234m E, 6917104m N	16/7/24	98.5	-0.5
	G24-1562C	527222m E, 6917076m N	16/7/24	97.0	0.0
	G24-1562D	527251m E, 6917063m N	16/7/24	97.0	-0.5
PG-4116-A-95	G24-1572A	527252m E, 6917081m N	17/7/24	96.0	-1.0
	G24-1572B	527210m E, 6917079m N	17/7/24	97.5	0.0
	G24-1572C	527248m E, 6917131m N	17/7/24	98.5	-0.5
PG-4116-A-96	G24-1575A	527252m E, 6917080m N	18/7/24	96.5	0.0
	G24-1575B	527244m E, 6917132m N	18/7/24	98.5	0.5
	G24-1575C	527220m E, 6917137m N	18/7/24	97.5	0.0
	G24-1575D	527223m E, 6917107m N	18/7/24	98.5	-1.0
PG-4116-A-97	G24-1558A	527249m E, 6917063m N	15/7/24	96.5	-1.0
	G24-1558B	527268m E, 6917083m N	15/7/24	96.5	-1.0
	G24-1558C	527238m E, 6917082m N	15/7/24	98.0	-1.0
	G24-1558D	527242m E, 6917113m N	15/7/24	99.0	0.0
	G24-1558E	527222m E, 6917085m N	15/7/24	97.5	-0.5
PG-4116-A-98	G24-1579A	527227m E, 6917053m N	19/7/24	97.5	2.5
	G24-1579B	527223m E, 6917110m N	19/7/24	95.5	1.0
	G24-1579C	527247m E, 6917145m N	19/7/24	97.5	0.5
PG-4116-A-99	G24-1602A	527244m E, 6917142m N	26/7/24	96.0	0.5
	G24-1602B	527196m E, 6917097m N	26/7/24	96.5	0.5
	G24-1602C	527201m E, 6917075m N	26/7/24	98.5	2.0
PG-4116-A-100	G24-1594A	527209m E, 6917078m N	24/7/24	95.5	2.0
	G24-1594B	527246m E, 6917062m N	24/7/24	98.5	0.0
PG-4116-A-101	G24-1597A	527202m E, 6917026m N	25/7/25	96.5	0.0
	G24-1597B	527221m E, 6917043m N	25/7/24	95.5	0.0
	G24-1597C	527245m E, 6917065m N	25/7/24	97.0	0.5
	G24-1597D	527252m E, 6917090m N	25/7/24	97.0	0.0
PG-4116-A-102	G24-1608A	527231m E, 6917130m N	29/7/24	98.0	2.0
	G24-1608B	527209m E, 6917107m N	29/7/24	99.0	2.0
PG-4116-A-103	G24-1611A	527258m E, 6916992m N	30/7/24	96.5	2.0
PG-4116-A-104	G24-1623A	527262m E, 6917009m N	31/7/24	95.5	1.5
PG-4116-A-105	G24-1641A	527235m E, 6916988m N	5/8/24	98.5	2.5
PG-4116-A-107	G24-1582A	527231m E, 6917145m N	22/7/24	96.5	0.5
	G24-1582B	527215m E, 6917124m N	22/7/24	95.5	0.0
	G24-1582C	527253m E, 6917084m N	22/7/24	98.5	2.0
	G24-1582D	527269m E, 6917093m N	22/7/24	98.0	0.0
	G24-1582E	527208m E, 6917037m N	22/7/24	97.0	0.0
PG-4116-A-108	G24-1586A	527231m E, 6917054m N	23/7/24	96.0	0.5
PG-4116-A-116	G25-2292A	527251m E, 6917142m N	16/6/25	96.0	0.5
PG-4116-A-117	G25-2306A	527240m E, 6917152m N	18/6/25	98.0	0.0
PG-4116-A-119	G25-2315A	527224m E, 6917155m N	20/6/25	95.5	0.0

Notes:

* - Denotes a failed test. Retest taken.

+ - Denotes a retest from a failed test result.

- Sample not testable due to more than 20% of material being retained on the 37.5mm sieve.

(1) Positive values are dry of OMC, negative values are wet of OMC

Given the supervision and testing regime adopted, it should be noted that testing is not undertaken on a per lot basis, but rather the extent of works undertaken. Some individual allotments may not have a specific test undertaken. This is an expected outcome given the testing regime adopted.

3.0 GENERAL STATEMENT OF COMPLIANCE

Pacific Geotech Pty Ltd certify that the bulk earthworks at the site has been carried out in in general accordance with the project specification, under a Level 1 Inspection and Testing Program in accordance with AS 3798-2007 guidelines.

It must be noted that several tested areas, particularly in the lower fill layers which were placed during an extended dry weather period are outside (dry) of the moisture specification. Additionally, as the weathered rock in the cut areas became stronger, less weathered and less fractured, the particle size within the fill material increased and included some particles which exceed the maximum allowable particle size being two-thirds of the layer thickness in size. Whilst the dry material and the over-sized particles do not conform the project specifications, based on our ongoing assessments during the earthworks operation, these issues are not expected to impact the long-term performance of the fill material and the fill is therefore assessed to be fit for purpose.

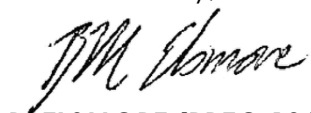
The fill may be deemed 'Controlled' fill in general accordance with AS 2870-2011 'Residential slabs and footings' clause 6.4.2 'Filling'.

This certification does not particularly excludes a certification of topsoil that has been placed following the bulk earthworks operation.

This certification does not consider the impacts of drainage on the long-term suitability of the fill material, this is a civil design issue. Drainage must be designed to minimise the potential for the fill to become saturated, scoured or otherwise negatively impacted in the event of inclement weather.

Should you have any queries regarding the Earthworks program please do not hesitate to contact Ben Elsmore or Peter Elkington at our office.

Yours faithfully,



B. ELSMORE (RPEQ 19656)



P. ELKINGTON (RPEQ 7226)

For and on behalf of
PACIFIC GEOTECH PTY LTD

Attached: Dry Density Ratio Reports
 Site Photographs

SITE PHOTOGRAPHS









Material Test Report

Report Number: PG-4116-A-7
Issue Number: 1
Date Issued: 10/11/2023
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 992
Date Sampled: 30/10/2023
Dates Tested: 30/10/2023 - 03/11/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

Pacific Geotech Pty Ltd
ABN: 62 615 248 952
Gold Coast Laboratory
3 Jowett St Coomera QLD 4209
Phone: (07) 5636 4680
Email: info@pacgeo.com.au



Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Ian Masman

Laboratory Manager

NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-992A	G23-992B	G23-992C
Client Sample #	**	**	**
Date Tested	30/10/2023	30/10/2023	30/10/2023
Time Tested	10:10	10:20	10:25
Test Request #/Location	Stage 2	Stage 2	Stage 2
Easting	527288	527282	527303
Northing	6917135	6917202	6917219
Elevation (m)	0.7m Above Natural	1m Above Natural	0.5m Above Natural
Soil Description	Sandy Gravelly Clay, Orange	Sandy Gravelly Clay, Orange	Sandy Gravelly Clay, Orange
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	7	17	19
Field Wet Density (FWD) t/m ³	1.81	2.06	2.14
Field Moisture Content %	4.5	7.7	8.8
Field Dry Density (FDD) t/m ³	1.73	1.91	1.97
Peak Converted Wet Density t/m ³	**	**	**
Adjusted Peak Converted Wet Density t/m ³	1.99	2.16	2.23
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	4.0	3.0	2.0
Hilf Density Ratio (%)	91.0	95.5	96.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: PG-4116-A-10
Issue Number: 1
Date Issued: 15/11/2023
Client: CCA Winslow
 c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1009
Date Sampled: 03/11/2023
Dates Tested: 03/11/2023 - 10/11/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Ian Masman
 Laboratory Manager
 NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-1009A	G23-1009B	G23-1009C	G23-1009D	G23-1009E	G23-1009F
Client Sample #	**	**	**	**	**	**
Date Tested	03/11/2023	03/11/2023	03/11/2023	03/11/2023	03/11/2023	03/11/2023
Time Tested	10:10	10:15	10:20	10:30	10:50	10:55
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 1	Stage 1
Easting	527279	527285	527284	527273	527496	527477
Northing	6917203	6917133	6917094	6917086	6917074	6917133
Elevation (m)	45.9	48.5	47.8	48.7	58.6	58.1
Soil Description	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Clay w/ Gravel, Brown	Sandy Clay w/ Gravel, Brown
Test Depth (mm)	150	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	37.5	19.0	19.0	19.0
Percentage of Wet Oversize (%)	18	12	7	15	16	12
Field Wet Density (FWD) t/m ³	2.09	2.17	2.32	2.15	2.06	1.95
Field Moisture Content %	10.9	11.8	8.7	9.6	11.1	9.3
Field Dry Density (FDD) t/m ³	1.88	1.94	2.13	1.96	1.85	1.78
Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.29	2.28	2.36	2.26	2.20	2.14
Moisture Variation (Wv) %	**	**	**	**	**	**
Adjusted Moisture Variation %	-2.0	-1.5	-2.5	0.0	0.0	2.0
Hilf Density Ratio (%)	91.0	95.0	98.0	95.0	93.5	91.0
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC
 Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-11
Issue Number: 1
Date Issued: 15/11/2023
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1011
Date Sampled: 06/11/2023
Dates Tested: 06/11/2023 - 13/11/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

Pacific Geotech Pty Ltd

ABN: 62 615 248 952

Gold Coast Laboratory

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Phone: (07) 5636 4680

Email: info@pacgeo.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Ian Masman

Laboratory Manager

NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-1011A	G23-1011B	G23-1011C	G23-1011D	G23-1011E
Client Sample #	**	**	**	**	**
Date Tested	06/11/2023	06/11/2023	06/11/2023	06/11/2023	06/11/2023
Time Tested	10:05	10:10	10:20	10:35	10:40
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3
Easting	527292	527270	527288	527279	527279
Northing	6917219	6917203	6917164	6917113	6917080
Elevation (m)	42.2	42.7	47.5	48.0	49.1
Soil Description	Clayey Gravel, Brown	Clayey Gravel, Brown	Sandy Gravelly Clay, Orange Brown	Clayey Gravel, Brown	Clayey Gravel, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	37.5	37.5	19.0	37.5	37.5
Percentage of Wet Oversize (%)	20	16	18	15	14
Field Wet Density (FWD) t/m ³	2.26	2.11	2.15	2.20	2.22
Field Moisture Content %	10.7	9.3	9.6	10.0	10.5
Field Dry Density (FDD) t/m ³	2.05	1.93	1.96	2.00	2.01
Peak Converted Wet Density t/m ³	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.37	2.27	2.21	2.28	2.27
Moisture Variation (Wv) %	**	**	**	**	**
Adjusted Moisture Variation %	-2.0	-0.5	1.0	-0.5	-0.5
Hilf Density Ratio (%)	95.5	93.0	97.0	96.5	98.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: PG-4116-A-12
Issue Number: 1
Date Issued: 15/11/2023
Client: CCA Winslow
 c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1018
Date Sampled: 07/11/2023
Dates Tested: 07/11/2023 - 13/11/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Ian Masman
 Laboratory Manager
 NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-1018A	G23-1018B	G23-1018C	G23-1018D	G23-1018E	G23-1018F
Client Sample #	**	**	**	**	**	**
Date Tested	07/11/2023	07/11/2023	07/11/2023	07/11/2023	07/11/2023	07/11/2023
Time Tested	09:50	09:55	10:05	10:10	10:20	10:25
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3
Easting	527235	527275	527279	527280	527275	527325
Northing	6917025	6917071	6917118	6917136	6917207	6917216
Elevation (m)	51.5	49.9	47.8	47.7	43.5	43.9
Soil Description	Sandy Gravelly Clay, Brown	Clayey Gravel, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Clayey Gravel, Brown
Test Depth (mm)	150	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	37.5
Percentage of Wet Oversize (%)	7	17	15	16	19	18
Field Wet Density (FWD) t/m ³	2.09	2.20	1.97	2.17	2.13	2.23
Field Moisture Content %	11.5	10.0	11.4	11.2	10.2	9.9
Field Dry Density (FDD) t/m ³	1.88	2.00	1.77	1.95	1.93	2.03
Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.17	2.24	2.19	2.26	2.24	2.25
Moisture Variation (Wv) %	**	**	**	**	**	**
Adjusted Moisture Variation %	0.0	-0.5	0.0	-1.5	0.0	0.0
Hilf Density Ratio (%)	96.5	98.0	90.0	96.0	95.0	99.0
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: PG-4116-A-13
Issue Number: 1
Date Issued: 21/11/2023
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1024
Date Sampled: 08/11/2023
Dates Tested: 08/11/2023 - 14/11/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Email: info@pacgeo.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Ian Masman
Laboratory Manager
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-1024A	G23-1024B	G23-1024C	G23-1024D	G23-1024E	G23-1024F
Client Sample #	**	**	**	**	**	**
Date Tested	08/11/2023	08/11/2023	08/11/2023	08/11/2023	08/11/2023	08/11/2023
Time Tested	10:15	10:20	10:25	10:35	10:45	10:50
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3
Easting	527278	527296	527277	527268	527293	527271
Northing	6917203	6917223	6917090	6917068	6917144	6917122
Elevation (m)	43.5	43.4	49.0	49.3	48.3	47.8
Soil Description	Sandy Gravelly Clay, Brown	Clayey Gravel, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown
Test Depth (mm)	150	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	37.5	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	18	17	18	19	19	17
Field Wet Density (FWD) t/m ³	2.04	2.01	2.19	2.21	2.21	2.19
Field Moisture Content %	9.7	9.4	11.1	10.6	10.4	12.5
Field Dry Density (FDD) t/m ³	1.86	1.84	1.97	1.99	2.01	1.94
Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.22	2.23	2.25	2.24	2.24	2.26
Moisture Variation (Wv) %	**	**	**	**	**	**
Adjusted Moisture Variation %	1.5	0.5	-0.5	-0.5	0.0	-1.5
Hilf Density Ratio (%)	92.0	90.5	97.5	98.5	98.5	97.0
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-14
Issue Number: 1
Date Issued: 21/11/2023
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1026
Date Sampled: 09/11/2023
Dates Tested: 09/11/2023 - 20/11/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Ian Masman

Laboratory Manager

NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-1026A	G23-1026B	G23-1026C	G23-1026D	G23-1026E
Client Sample #	**	**	**	**	**
Date Tested	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023
Time Tested	10:10	10:15	10:25	10:30	10:40
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 1
Easting	527265	527295	527296	527300	527476
Northing	6917045	6917081	6917128	6917159	6917132
Elevation (m)	50.5	49.9	48.7	48.1	58.3
Soil Description	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	37.5	19.0	19.0
Percentage of Wet Oversize (%)	17	14	19	15	8
Field Wet Density (FWD) t/m ³	2.22	2.04	2.19	2.14	2.02
Field Moisture Content %	10.7	9.9	11.8	10.5	9.5
Field Dry Density (FDD) t/m ³	2.00	1.85	1.96	1.93	1.84
Peak Converted Wet Density t/m ³	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.24	2.18	2.28	2.21	2.17
Moisture Variation (Wv) %	**	**	**	**	**
Adjusted Moisture Variation %	-0.5	1.5	-1.5	0.0	2.0
Hilf Density Ratio (%)	99.0	93.5	96.0	97.0	93.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-14
Issue Number: 1
Date Issued: 21/11/2023
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1026
Date Sampled: 09/11/2023
Dates Tested: 09/11/2023 - 20/11/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

Pacific Geotech Pty Ltd
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Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Ian Masman
Laboratory Manager
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-1026F	G23-1026G	G23-1026H	G23-1026I	
Client Sample #	**	**	**	**	
Date Tested	09/11/2023	09/11/2023	09/11/2023	09/11/2023	
Time Tested	10:45	11:00	11:15	11:25	
Test Request #/Location	Stage 1	Stage 2 (Retest G23-988B)	Stage 1 (Retest G23-988G)	Stage 2 (Retest G23-992A)	
Easting	527483	527351	527522	527288	
Northing	6917104	6917138	6917149	6917135	
Elevation (m)	58.7	49.2	49.5	0.7m Above Natural	
Soil Description	Sandy Gravelly Clay, Brown	Sandy Clay w/ Gravel, Brown	Sandy Clay w/ Gravel, Brown	Sandy Gravelly Clay, Brown	
Test Depth (mm)	150	150	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	
Percentage of Wet Oversize (%)	7	16	18	9	
Field Wet Density (FWD) t/m ³	2.08	2.17	2.19	2.11	
Field Moisture Content %	10.6	11.7	11.6	11.0	
Field Dry Density (FDD) t/m ³	1.88	1.94	1.96	1.90	
Peak Converted Wet Density t/m ³	**	**	**	**	
Adjusted Peak Converted Wet Density t/m ³	2.19	2.24	2.24	2.19	
Moisture Variation (Wv) %	**	**	**	**	
Adjusted Moisture Variation %	0.0	0.0	1.0	0.5	
Hilf Density Ratio (%)	95.0	97.0	97.5	96.5	
Compaction Method	Standard	Standard	Standard	Standard	
Report Remarks	**	**	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-15
Issue Number: 1
Date Issued: 27/11/2023
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1029
Date Sampled: 10/11/2023
Dates Tested: 10/11/2023 - 22/11/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Ian Masman
Laboratory Manager
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-1029A	G23-1029B	G23-1029C	G23-1029D
Client Sample #	**	**	**	**
Date Tested	10/11/2023	10/11/2023	10/11/2023	10/11/2023
Time Tested	10:05	10:10	10:20	10:25
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3
Easting	527243	527285	527319	527271
Northing	6917018	6917111	6917146	6917169
Elevation (m)	52.4	47.1	46.8	45.7
Soil Description	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	37.5
Percentage of Wet Oversize (%)	17	16	19	14
Field Wet Density (FWD) t/m ³	2.12	2.15	2.04	2.09
Field Moisture Content %	11.3	11.1	9.4	10.7
Field Dry Density (FDD) t/m ³	1.91	1.93	1.86	1.89
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.22	2.24	2.25	2.20
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	0.0	-0.5	0.5	0.0
Hilf Density Ratio (%)	95.5	96.0	90.5	95.0
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-15
Issue Number: 1
Date Issued: 27/11/2023
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1029
Date Sampled: 10/11/2023
Dates Tested: 10/11/2023 - 22/11/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Ian Masman
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NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-1029E	G23-1029F	G23-1029G	G23-1029H
Client Sample #	**	**	**	**
Date Tested	10/11/2023	10/11/2023	10/11/2023	10/11/2023
Time Tested	10:30	10:45	11:00	11:05
Test Request #/Location	Stage 2 & 3	Stage 1 (Retest G23-994A)	Stage 2 (Retest G23-994H)	Stage 2 (Retest G23-994I)
Easting	527293	527508	527296	527284
Northing	6917208	6917096	6917142	6917157
Elevation (m)	45.0	54.0	45.0	44.4
Soil Description	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	19	17	19	14
Field Wet Density (FWD) t/m ³	2.21	2.13	2.06	2.20
Field Moisture Content %	12.5	9.5	9.9	12.3
Field Dry Density (FDD) t/m ³	1.96	1.94	1.87	1.96
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.19	2.21	2.25	2.17
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	1.0	1.5	1.0	1.0
Hilf Density Ratio (%)	101.0	96.0	91.5	101.5
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: PG-4116-A-16
Issue Number: 1
Date Issued: 27/11/2023
Client: CCA Winslow
 c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1035
Date Sampled: 13/11/2023
Dates Tested: 13/11/2023 - 23/11/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Ian Masman
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 NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-1035A	G23-1035B	G23-1035C	G23-1035D
Client Sample #	**	**	**	**
Date Tested	13/11/2023	13/11/2023	13/11/2023	13/11/2023
Time Tested	13:20	13:25	13:40	13:50
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3
Easting	527315	527300	527277	527238
Northing	6917216	6917237	6917136	6917023
Elevation (m)	45.3	48.0	48.1	53.0
Soil Description	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	37.5	19.0
Percentage of Wet Oversize (%)	20	18	16	19
Field Wet Density (FWD) t/m ³	2.08	2.06	2.16	2.14
Field Moisture Content %	8.3	7.9	10.5	11.4
Field Dry Density (FDD) t/m ³	1.92	1.91	1.95	1.92
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.12	2.13	2.26	2.21
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	3.0	3.5	-1.0	0.0
Hilf Density Ratio (%)	97.5	97.0	95.0	97.0
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC
 Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-17
Issue Number: 1
Date Issued: 27/11/2023
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1042
Date Sampled: 15/11/2023 10:00
Dates Tested: 15/11/2023 - 24/11/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Sandy Gravelly Clay
Material Source: Onsite

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Approved Signatory: Ian Masman

Laboratory Manager

NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-1042A	G23-1042B	G23-1042C	G23-1042D	G23-1042E
Client Sample #	**	**	**	**	**
Date Tested	15/11/2023	15/11/2023	15/11/2023	15/11/2023	15/11/2023
Time Tested	10:00	10:05	10:10	10:15	10:20
Test Request #/Location	Stages 2 & 3	Stages 2 & 3	Stages 2 & 3	Stages 2 & 3	Stages 2 & 3
Easting	527254	527239	527291	527300	527327
Northing	6917102	6917093	6917142	6917153	6917144
Elevation (m)	50.5	51.4	48.2	49.3	48.6
Soil Description	Sandy Gravelly Clay, brown	Sandy Gravelly Clay, brown	Sandy Gravelly Clay, brown	Sandy Gravelly Clay, brown	Sandy Gravelly Clay, brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	19	20	19	19	19
Field Wet Density (FWD) t/m ³	2.20	2.20	2.18	2.19	2.23
Field Moisture Content %	8.7	9.7	11.5	11.1	9.1
Field Dry Density (FDD) t/m ³	2.03	2.00	1.96	1.97	2.04
Peak Converted Wet Density t/m ³	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.25	2.20	2.27	2.26	2.21
Moisture Variation (Wv) %	**	**	**	**	**
Adjusted Moisture Variation %	2.0	1.5	-0.5	-0.5	1.5
Hilf Density Ratio (%)	98.0	99.5	96.0	97.0	100.5
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-17
Issue Number: 1
Date Issued: 27/11/2023
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1042
Date Sampled: 15/11/2023 10:00
Dates Tested: 15/11/2023 - 24/11/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Sandy Gravelly Clay
Material Source: Onsite

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NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-1042F	G23-1042G	G23-1042H	G23-1042I	G23-1042J
Client Sample #	**	**	**	**	**
Date Tested	15/11/2023	15/11/2023	15/11/2023	15/11/2023	15/11/2023
Time Tested	10:25	10:30	10:35	10:40	10:45
Test Request #/Location	Stage 1 (Retest G23-1009E)	Stage 1 (Retest G23-1009F)	Stages 2 & 3 (Retest G23-1011B)	Stages 2 & 3 (Retest G23-1018C)	Stages 2 & 3 (Retest G23-1024A)
Easting	527496	525477	527270	527279	527278
Northing	6917074	6917133	6917203	6917118	6917203
Elevation (m)	58.6	58.1	42.7	47.8	43.5
Soil Description	Sandy Gravelly Clay, brown	Sandy Gravelly Clay, brown	Sandy Gravelly Clay, brown	Sandy Gravelly Clay, brown	Sandy Gravelly Clay, brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	19	18	16	13	16
Field Wet Density (FWD) t/m ³	2.21	2.23	2.16	2.18	2.21
Field Moisture Content %	8.8	10.4	-100.1	10.5	9.5
Field Dry Density (FDD) t/m ³	2.03	2.02	-1646.44	1.98	2.02
Peak Converted Wet Density t/m ³	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.23	2.20	2.26	2.25	2.24
Moisture Variation (Wv) %	**	**	**	**	**
Adjusted Moisture Variation %	1.5	1.0	-0.5	-0.5	1.5
Hilf Density Ratio (%)	99.0	101.5	95.5	97.5	99.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC
Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-18
Issue Number: 1
Date Issued: 27/11/2023
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1037
Date Sampled: 14/11/2023
Dates Tested: 14/11/2023 - 23/11/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Ian Masman

Laboratory Manager

NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-1037A	G23-1037B	G23-1037C	G23-1037D
Client Sample #	**	**	**	**
Date Tested	14/11/2023	14/11/2023	14/11/2023	14/11/2023
Time Tested	10:10	10:15	10:20	10:25
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3
Easting	527331	527304	527224	527235
Northing	6917145	6917127	6917029	6917025
Elevation (m)	49.0	49.2	523.0	53.4
Soil Description	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	19.0	37.5	19.0	19.0
Percentage of Wet Oversize (%)	20	13	19	11
Field Wet Density (FWD) t/m ³	2.17	2.17	2.22	2.15
Field Moisture Content %	10.5	10.3	11.6	9.0
Field Dry Density (FDD) t/m ³	1.96	1.97	1.99	1.97
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.20	2.27	2.23	2.26
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	1.0	0.0	0.0	0.5
Hilf Density Ratio (%)	98.5	95.5	100.0	95.0
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-18
Issue Number: 1
Date Issued: 27/11/2023
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1037
Date Sampled: 14/11/2023
Dates Tested: 14/11/2023 - 23/11/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Ian Masman
Laboratory Manager
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-1037E	G23-1037F	G23-1037G	
Client Sample #	**	**	**	
Date Tested	14/11/2023	14/11/2023	14/11/2023	
Time Tested	10:45	11:05	11:10	
Test Request #/Location	Stage 1 (Retest G23-1001D)	Stage 2 (Retest G23-1001F)	Stage 2 (Retest G23-1009A)	
Easting	527463	527284	527279	
Northing	6917130	6917103	6917203	
Elevation (m)	57.8	47.9	45.9	
Soil Description	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	
Test Depth (mm)	150	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	19.0	
Percentage of Wet Oversize (%)	18	19	18	
Field Wet Density (FWD) t/m ³	2.12	2.15	2.09	
Field Moisture Content %	11.0	12.2	8.5	
Field Dry Density (FDD) t/m ³	1.91	1.92	1.93	
Peak Converted Wet Density t/m ³	**	**	**	
Adjusted Peak Converted Wet Density t/m ³	2.21	2.26	2.25	
Moisture Variation (Wv) %	**	**	**	
Adjusted Moisture Variation %	0.5	0.0	2.0	
Hilf Density Ratio (%)	96.0	95.0	93.0	
Compaction Method	Standard	Standard	Standard	
Report Remarks	**	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC
Negative values = test is wet of OMC

Material Test Report



Report Number: PG-4116-A-19
Issue Number: 1
Date Issued: 28/11/2023
Client: CCA Winslow
 c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1047
Date Sampled: 16/11/2023
Dates Tested: 16/11/2023 - 27/11/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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 NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-1047A	G23-1047B	G23-1047C	G23-1047D	G23-1047E	G23-1047F
Client Sample #	**	**	**	**	**	**
Date Tested	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
Time Tested	09:50	09:55	10:00	10:05	10:15	10:25
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3
Easting	527297	527281	527247	527281	527236	527309
Northing	6917114	6917131	6917118	6917090	6917025	6917193
Elevation (m)	49.5	49.9	50.4	50.8	53.0	42.5
Soil Description	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown
Test Depth (mm)	150	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	37.5	19.0	19.0
Percentage of Wet Oversize (%)	19	17	19	18	6	7
Field Wet Density (FWD) t/m ³	2.20	2.17	2.24	2.22	2.01	2.14
Field Moisture Content %	9.9	10.2	9.3	8.8	10.1	11.6
Field Dry Density (FDD) t/m ³	2.00	1.97	2.04	2.04	1.83	1.92
Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.29	2.28	2.23	2.28	2.15	2.23
Moisture Variation (Wv) %	**	**	**	**	**	**
Adjusted Moisture Variation %	0.0	0.0	1.5	0.5	1.5	-0.5
Hilf Density Ratio (%)	96.0	95.0	100.0	97.5	93.5	96.0
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC
 Negative values = test is wet of OMC

Material Test Report



Report Number: PG-4116-A-19
Issue Number: 1
Date Issued: 28/11/2023
Client: CCA Winslow
 c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1047
Date Sampled: 16/11/2023
Dates Tested: 16/11/2023 - 27/11/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

Pacific Geotech Pty Ltd
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Approved Signatory: Ian Masman
 Laboratory Manager
 NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-1047G	G23-1047H	G23-1047I	G23-1047J	G23-1047K	
Client Sample #	**	**	**	**	**	
Date Tested	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023	
Time Tested	10:30	10:35	10:50	11:00	11:10	
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3 (Retest G23-1024B)	Stage 1 (Retest G23-1026E)	Stage 2 & 3 (Retest G23-1026B)	
Easting	527303	527314	527296	527476	527295	
Northing	6917190	6917197	6917223	6917132	6917081	
Elevation (m)	43.0	43.5	43.4	58.3	49.9	
Soil Description	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	
Test Depth (mm)	150	150	150	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	
Percentage of Wet Oversize (%)	7	11	14	15	19	
Field Wet Density (FWD) t/m ³	2.12	2.15	2.19	2.19	2.22	
Field Moisture Content %	15.6	10.2	10.4	9.8	9.1	
Field Dry Density (FDD) t/m ³	1.83	1.95	1.98	1.99	2.04	
Peak Converted Wet Density t/m ³	**	**	**	**	**	
Adjusted Peak Converted Wet Density t/m ³	2.20	2.22	2.29	2.26	2.24	
Moisture Variation (Wv) %	**	**	**	**	**	
Adjusted Moisture Variation %	1.0	0.0	-0.5	0.5	1.0	
Hilf Density Ratio (%)	96.5	96.5	95.5	96.5	99.5	
Compaction Method	Standard	Standard	Standard	Standard	Standard	
Report Remarks	**	**	**	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC
 Negative values = test is wet of OMC

Material Test Report



Report Number: PG-4116-A-21
Issue Number: 1
Date Issued: 30/11/2023
Client: CCA Winslow
 c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1059
Date Sampled: 20/11/2023
Dates Tested: 20/11/2023 - 29/11/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Rob Sharpe

Approved Signatory: Rob Sharpe
 Senior Geotechnician
 NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-1059A	G23-1059B	G23-1059C	G23-1059D	G23-1059E	G23-1059F
Client Sample #	**	**	**	**	**	**
Date Tested	20/11/2023	20/11/2023	20/11/2023	20/11/2023	20/11/2023	20/11/2023
Time Tested	10:10	10:20	10:25	10:30	10:40	11:00
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 1
Easting	527293	527292	527264	527289	527226	527391
Northing	6917201	6917140	6917134	6917086	6917022	6917904
Elevation (m)	44.2	49.3	49.6	51.7	54.5	51.6
Soil Description	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Clay w/ Gravel, Brown	Sandy Clay w/ Gravel, Brown
Test Depth (mm)	150	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	19	9	19	18	8	19
Field Wet Density (FWD) t/m ³	2.18	2.16	2.20	2.19	1.96	2.04
Field Moisture Content %	10.1	8.1	10.4	10.6	15.9	11.2
Field Dry Density (FDD) t/m ³	1.98	2.00	1.99	1.98	1.69	1.83
Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.26	2.24	2.20	2.21	1.96	2.09
Moisture Variation (Wv) %	**	**	**	**	**	**
Adjusted Moisture Variation %	0.0	0.5	0.0	0.5	0.5	0.5
Hilf Density Ratio (%)	96.5	96.5	100.0	99.0	100.0	97.5
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-22
Issue Number: 1
Date Issued: 30/11/2023
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1055
Date Sampled: 17/11/2023
Dates Tested: 17/11/2023 - 29/11/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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(Signature)

Approved Signatory: Dave Trotman
Senior Geotechnician
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-1055A	G23-1055B	G23-1055C	G23-1055D	G23-1055E
Client Sample #	**	**	**	**	**
Date Tested	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Time Tested	10:05	10:10	10:15	10:20	10:25
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3
Easting	527232	527259	527301	527270	527318
Northing	6917039	6917085	6917095	6917117	6917134
Elevation (m)	53.7	51.6	51.4	50.3	50.7
Soil Description	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	19	14	19	13	12
Field Wet Density (FWD) t/m ³	2.20	2.14	2.22	2.17	2.19
Field Moisture Content %	9.0	8.8	9.8	8.9	10.3
Field Dry Density (FDD) t/m ³	2.02	1.97	2.02	2.00	1.98
Peak Converted Wet Density t/m ³	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.28	2.24	2.25	2.23	2.25
Moisture Variation (Wv) %	**	**	**	**	**
Adjusted Moisture Variation %	0.0	0.0	1.5	0.5	0.0
Hilf Density Ratio (%)	96.5	96.0	98.5	97.5	97.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC
Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-22
Issue Number: 1
Date Issued: 30/11/2023
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1055
Date Sampled: 17/11/2023
Dates Tested: 17/11/2023 - 29/11/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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(Signature)

Approved Signatory: Dave Trotman
Senior Geotechnician
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-1055F	G23-1055G	G23-1055H	G23-1055I	
Client Sample #	**	**	**	**	
Date Tested	17/11/2023	17/11/2023	17/11/2023	17/11/2023	
Time Tested	10:35	10:40	11:00	11:05	
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 1	Stage 1	
Easting	527316	527305	527391	527407	
Northing	6917196	6917178	6916902	6916915	
Elevation (m)	44.0	43.6	**	**	
Layer / Reduced Level	**	**	6.5m Below FL	6m Below FL	
Soil Description	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	
Test Depth (mm)	150	150	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	
Percentage of Wet Oversize (%)	10	13	14	12	
Field Wet Density (FWD) t/m ³	2.15	2.16	2.14	2.19	
Field Moisture Content %	11.5	10.4	10.3	10.2	
Field Dry Density (FDD) t/m ³	1.93	1.96	1.94	1.99	
Peak Converted Wet Density t/m ³	**	**	**	**	
Adjusted Peak Converted Wet Density t/m ³	2.24	2.23	2.21	2.21	
Moisture Variation (Wv) %	**	**	**	**	
Adjusted Moisture Variation %	-0.5	-0.5	0.5	0.0	
Hilf Density Ratio (%)	96.0	97.0	97.0	99.5	
Compaction Method	Standard	Standard	Standard	Standard	
Report Remarks	**	**	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-23
Issue Number: 1
Date Issued: 30/11/2023
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1063
Date Sampled: 22/11/2023
Dates Tested: 22/11/2023 - 29/11/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Dave Trotman
Senior Geotechnician
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-1063A	G23-1063B	G23-1063C
Client Sample #	**	**	**
Date Tested	22/11/2023	22/11/2023	22/11/2023
Time Tested	10:10	10:20	10:25
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3
Easting	527361	527321	527336
Northing	6917161	6917142	6917132
Elevation (m)	47.8	50.4	51.2
Soil Description	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	16	15	14
Field Wet Density (FWD) t/m ³	2.24	2.19	2.25
Field Moisture Content %	8.8	15.0	10.1
Field Dry Density (FDD) t/m ³	2.06	1.91	2.04
Peak Converted Wet Density t/m ³	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.22	2.22	2.29
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	2.0	1.0	-0.5
Hilf Density Ratio (%)	100.5	98.5	98.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: PG-4116-A-26
Issue Number: 1
Date Issued: 05/12/2023
Client: CCA Winslow
 c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1074
Date Sampled: 28/11/2023
Dates Tested: 28/11/2023 - 04/12/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Ian Masman
 Laboratory Manager
 NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-1074A	G23-1074B	G23-1074C	G23-1074D	G23-1074E	G23-1074F
Client Sample #	**	**	**	**	**	**
Date Tested	28/11/2023	28/11/2023	28/11/2023	28/11/2023	28/11/2023	28/11/2023
Time Tested	10:05	10:10	10:25	10:30	10:40	10:55
Test Request #/Location	Stage 1	Stage 1	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3 (Retest G23-1029C)	Stage 2 & 3 (Retest G23-1029G)
Easting	527402	527416	527332	527335	527319	527296
Northing	6916897	6916912	6917205	6917217	6917146	6917142
Elevation (m)	51.9	52.3	47.1	47.5	46.8	45.0
Soil Description	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	Sandy Clay w/ Gravel, Brown	Sandy Gravelly Clay, Brown
Test Depth (mm)	150	150	150	150	150	150
Sieve used to determine oversize (mm)	37.5	37.5	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	17	14	19	16	15	19
Field Wet Density (FWD) t/m ³	2.35	2.28	2.18	2.16	2.02	2.19
Field Moisture Content %	9.7	10.2	9.9	9.5	12.8	9.7
Field Dry Density (FDD) t/m ³	2.14	2.07	1.99	1.97	1.79	1.99
Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.31	2.27	2.25	2.25	2.23	2.29
Moisture Variation (Wv) %	**	**	**	**	**	**
Adjusted Moisture Variation %	0.0	-0.5	-0.5	-1.0	-2.0	0.0
Hilf Density Ratio (%)	101.5	100.5	97.0	96.0	90.5	95.5
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-27
Issue Number: 1
Date Issued: 06/12/2023
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1088
Date Sampled: 01/12/2023
Dates Tested: 01/12/2023 - 05/12/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Ian Masman
Laboratory Manager
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-1088A	G23-1088B	G23-1088C	G23-1088D
Client Sample #	**	**	**	**
Date Tested	01/12/2023	01/12/2023	01/12/2023	01/12/2023
Time Tested	13:05	13:10	13:15	13:30
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 1
Easting	527312	527318	527336	527413
Northing	6917194	6917176	6917164	6916907
Elevation (m)	47.8	48.0	48.8	52.7
Soil Description	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	18	11	14	18
Field Wet Density (FWD) t/m ³	2.23	2.16	2.16	2.22
Field Moisture Content %	8.5	10.3	9.9	11.4
Field Dry Density (FDD) t/m ³	2.06	1.96	1.97	1.99
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.23	2.24	2.24	2.26
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	2.0	0.0	-0.5	-0.5
Hilf Density Ratio (%)	100.0	96.5	96.5	98.0
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-27
Issue Number: 1
Date Issued: 06/12/2023
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1088
Date Sampled: 01/12/2023
Dates Tested: 01/12/2023 - 05/12/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

Pacific Geotech Pty Ltd

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Approved Signatory: Ian Masman

Laboratory Manager

NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-1088E	G23-1088F	G23-1088G	
Client Sample #	**	**	**	
Date Tested	01/12/2023	01/12/2023	01/12/2023	
Time Tested	13:35	13:50	14:00	
Test Request #/Location	Stage 1	Stage 2 & 3 (Retest G23-1037G)	Stage 2 & 3 (Retest G23-1047E)	
Easting	527410	527296	6917203	
Northing	6916919	527236	6917025	
Elevation (m)	52.9	45.9	53.0	
Soil Description	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	
Test Depth (mm)	150	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	19.0	
Percentage of Wet Oversize (%)	18	18	8	
Field Wet Density (FWD) t/m ³	2.22	2.18	2.14	
Field Moisture Content %	10.3	9.8	10.2	
Field Dry Density (FDD) t/m ³	2.01	1.98	1.94	
Peak Converted Wet Density t/m ³	**	**	**	
Adjusted Peak Converted Wet Density t/m ³	2.25	2.23	2.23	
Moisture Variation (Wv) %	**	**	**	
Adjusted Moisture Variation %	0.0	0.0	-0.5	
Hilf Density Ratio (%)	98.5	97.5	96.0	
Compaction Method	Standard	Standard	Standard	
Report Remarks	**	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-28
Issue Number: 1
Date Issued: 08/12/2023
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1090
Date Sampled: 04/12/2023
Dates Tested: 04/12/2023 - 06/12/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Ian Masman

Laboratory Manager

NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-1090A	G23-1090B	
Client Sample #	**	**	
Date Tested	04/12/2023	04/12/2023	
Time Tested	10:15	10:25	
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	
Easting	527343	527334	
Northing	6917159	6917186	
Elevation (m)	49.0	48.5	
Soil Description	Sandy Gravelly Clay, Brown	Sandy Gravelly Clay, Brown	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	37.5	19.0	
Percentage of Wet Oversize (%)	12	10	
Field Wet Density (FWD) t/m ³	2.18	2.16	
Field Moisture Content %	9.2	9.5	
Field Dry Density (FDD) t/m ³	2.00	1.98	
Peak Converted Wet Density t/m ³	**	**	
Adjusted Peak Converted Wet Density t/m ³	2.29	2.27	
Moisture Variation (Wv) %	**	**	
Adjusted Moisture Variation %	-0.5	0.0	
Hilf Density Ratio (%)	95.0	95.5	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-29
Issue Number: 1
Date Issued: 08/12/2023
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1100
Date Sampled: 05/12/2023
Dates Tested: 05/12/2023 - 06/12/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Ian Masman
Laboratory Manager
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-1100A	G23-1100B	G23-1100C	G23-1100D
Client Sample #	**	**	**	**
Date Tested	05/12/2023	05/12/2023	05/12/2023	05/12/2023
Time Tested	10:05	10:10	10:20	10:25
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3
Easting	527345	527350	527310	527291
Northing	6917202	6917186	6917120	6917107
Elevation (m)	48.0	48.2	51.2	50.8
Soil Description	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	37.5	19.0	19.0	19.0
Percentage of Wet Oversize (%)	10	14	18	13
Field Wet Density (FWD) t/m ³	2.18	2.22	2.25	2.18
Field Moisture Content %	9.0	11.1	10.5	9.7
Field Dry Density (FDD) t/m ³	2.00	2.00	2.04	1.98
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.30	2.28	2.24	2.23
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	-0.5	0.0	0.5	0.5
Hilf Density Ratio (%)	95.0	97.5	100.5	97.5
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: PG-4116-A-30
Issue Number: 1
Date Issued: 12/12/2023
Client: CCA Winslow
 c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1107
Date Sampled: 06/12/2023
Dates Tested: 06/12/2023 - 11/12/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Ian Masman
 Laboratory Manager
 NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-1107A	G23-1107B	G23-1107C	G23-1107D	G23-1107E
Client Sample #	**	**	**	**	**
Date Tested	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/12/2023
Time Tested	10:10	10:15	10:20	10:25	10:40
Test Request #/Location	Stage 1	Stage 1	Stage 1	Stage 1	Stage 2 & 3 (Retest G23-1074E)
Easting	527417	527416	527427	527427	527319
Northing	6916902	6916892	6916899	6916892	6917146
Elevation (m)	52.2	51.0	51.5	51.7	46.8
Soil Description	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	37.5	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	13	19	18	18	15
Field Wet Density (FWD) t/m ³	2.22	2.18	2.14	2.18	2.21
Field Moisture Content %	7.4	10.4	10.2	9.4	9.5
Field Dry Density (FDD) t/m ³	2.06	1.98	1.94	1.99	2.02
Peak Converted Wet Density t/m ³	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.23	2.27	2.23	2.24	2.27
Moisture Variation (Wv) %	**	**	**	**	**
Adjusted Moisture Variation %	1.5	-0.5	0.0	0.0	-0.5
Hilf Density Ratio (%)	99.5	96.0	96.0	97.5	97.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC
 Negative values = test is wet of OMC

Material Test Report



Report Number: PG-4116-A-31
Issue Number: 1
Date Issued: 18/12/2023
Client: CCA Winslow
 c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1127
Date Sampled: 11/12/2023
Dates Tested: 11/12/2023 - 14/12/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Ian Masman
 Laboratory Manager
 NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-1127A	G23-1127B	G23-1127C	G23-1127D
Client Sample #	**	**	**	**
Date Tested	11/12/2023	11/12/2023	11/12/2023	11/12/2023
Time Tested	10:15	10:20	10:25	10:30
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3
Easting	527314	527331	527327	527320
Northing	6917165	6917175	6917188	6917206
Elevation (m)	49.6	49.3	48.8	49.5
Soil Description	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	37.5	37.5	37.5	37.5
Percentage of Wet Oversize (%)	16	15	19	16
Field Wet Density (FWD) t/m ³	2.24	2.18	2.22	2.13
Field Moisture Content %	8.2	9.2	9.2	7.8
Field Dry Density (FDD) t/m ³	2.07	1.99	2.03	1.97
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.26	2.27	2.31	2.23
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	2.0	1.5	-0.5	2.5
Hilf Density Ratio (%)	99.0	96.0	96.0	95.5
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC
 Negative values = test is wet of OMC

Material Test Report



Report Number: PG-4116-A-32
Issue Number: 1
Date Issued: 20/12/2023
Client: CCA Winslow
 c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1133
Date Sampled: 12/12/2023
Dates Tested: 12/12/2023 - 18/12/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Dave Trotman
 Senior Geotechnician
 NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-1133A	G23-1133B	G23-1133C	G23-1133D
Client Sample #	**	**	**	**
Date Tested	12/12/2023	12/12/2023	12/12/2023	12/12/2023
Time Tested	10:10	10:15	10:20	10:35
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3
Easting	527340	527321	527298	527251
Northing	6917175	6917141	6917114	6917189
Elevation (m)	50.9	51.4	51.6	**
Layer / Reduced Level	**	**	**	Finish Level
Soil Description	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	37.5	19.0	37.5	19.0
Percentage of Wet Oversize (%)	12	17	4	13
Field Wet Density (FWD) t/m ³	2.22	2.21	2.05	2.19
Field Moisture Content %	8.5	11.1	8.2	9.5
Field Dry Density (FDD) t/m ³	2.05	1.99	1.89	2.00
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.23	2.27	2.22	2.21
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	2.0	0.0	0.5	2.0
Hilf Density Ratio (%)	99.5	97.5	92.5	99.5
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-33
Issue Number: 1
Date Issued: 20/12/2023
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1146
Date Sampled: 14/12/2023
Dates Tested: 14/12/2023 - 18/12/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Dave Trotman
Senior Geotechnician
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-1146A	G23-1146B	
Client Sample #	**	**	
Date Tested	14/12/2023	14/12/2023	
Time Tested	10:15	10:25	
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	
Easting	527344	527316	
Northing	6917235	6917209	
Elevation (m)	49.5	49.8	
Soil Description	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	37.5	37.5	
Percentage of Wet Oversize (%)	16	15	
Field Wet Density (FWD) t/m ³	2.19	2.22	
Field Moisture Content %	9.0	8.3	
Field Dry Density (FDD) t/m ³	2.01	2.05	
Peak Converted Wet Density t/m ³	**	**	
Adjusted Peak Converted Wet Density t/m ³	2.29	2.26	
Moisture Variation (Wv) %	**	**	
Adjusted Moisture Variation %	0.0	2.0	
Hilf Density Ratio (%)	95.5	98.0	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-34
Issue Number: 1
Date Issued: 20/12/2023
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1155
Date Sampled: 15/12/2023
Dates Tested: 15/12/2023 - 19/12/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Dave Trotman

Senior Geotechnician

NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-1155A	G23-1155B	
Client Sample #	**	**	
Date Tested	15/12/2023	15/12/2023	
Time Tested	10:10	10:20	
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	
Easting	527287	527313	
Northing	6917155	6917166	
Elevation (m)	49.5	50.4	
Soil Description	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	37.5	
Percentage of Wet Oversize (%)	19	12	
Field Wet Density (FWD) t/m ³	2.10	2.12	
Field Moisture Content %	10.6	8.8	
Field Dry Density (FDD) t/m ³	1.90	1.95	
Peak Converted Wet Density t/m ³	**	**	
Adjusted Peak Converted Wet Density t/m ³	2.23	2.21	
Moisture Variation (Wv) %	**	**	
Adjusted Moisture Variation %	0.5	2.0	
Hilf Density Ratio (%)	94.0	96.0	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-35
Issue Number: 1
Date Issued: 22/12/2023
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,

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Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera

Work Request: 1161
Date Sampled: 19/12/2023
Dates Tested: 19/12/2023 - 20/12/2023

Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted

Remarks: Samples have greater than 20% by mass of particles retained on the 37.5mm sieve and therefore this test method is not applicable.

Specification: Minimum 95% Standard Compaction

Site Selection: Selected by GTA

Location: Upper Coomera

Material: Earthworks Fill

Material Source: Onsite



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Approved Signatory: Ian Masman

Laboratory Manager

NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	G23-1161A	G23-1161B	G23-1161C	G23-1161D	G23-1161E
Client Sample #	**	**	**	**	**
Date Tested	19/12/2023	19/12/2023	19/12/2023	19/12/2023	19/12/2023
Time Tested	10:05	10:10	10:15	10:25	10:35
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3
Easting	527352	527344	527330	527309	527285
Northing	6917193	6917161	6917195	6917160	6917146
Elevation (m)	50.6	50.9	51.1	51.5	51.6
Soil Description	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	37.5	37.5	37.5	37.5	37.5
Percentage of Wet Oversize (%)	22	22	22	26	34
Field Wet Density (FWD) t/m ³	2.23	2.19	2.27	2.30	2.37
Field Moisture Content %	9.0	10.3	8.6	9.3	9.3
Field Dry Density (FDD) t/m ³	2.05	1.98	2.09	2.10	2.17
Peak Converted Wet Density t/m ³	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	**	**	**	**	**
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	**	**	**	**	**
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-36
Issue Number: 1
Date Issued: 10/01/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1140
Date Sampled: 13/12/2023
Dates Tested: 13/12/2023 - 09/01/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Rob Sharpe

Senior Geotechnician

NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-1140A	G23-1140B	
Client Sample #	**	**	
Date Tested	13/12/2023	13/12/2023	
Time Tested	10:10	10:20	
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	
Easting	527359	527352	
Northing	6917171	6917150	
Elevation (m)	51.2	51.2	
Soil Description	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	17	18	
Field Wet Density (FWD) t/m ³	2.14	2.08	
Field Moisture Content %	7.3	5.3	
Field Dry Density (FDD) t/m ³	2.00	1.97	
Peak Converted Wet Density t/m ³	**	**	
Adjusted Peak Converted Wet Density t/m ³	2.22	2.12	
Moisture Variation (Wv) %	**	**	
Adjusted Moisture Variation %	2.0	2.0	
Hilf Density Ratio (%)	96.5	98.0	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-37
Issue Number: 1
Date Issued: 18/01/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1166
Date Sampled: 20/12/2023
Dates Tested: 20/12/2023 - 11/01/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: Samples G23-1166A, G23-1166B, & G23-1166D have greater than 20% by mass of particles retained on the 37.5mm sieve and therefore this test method is not applicable.
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Ian Masman

Laboratory Manager

NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-1166A	G23-1166B	G23-1166C	G23-1166D
Client Sample #	**	**	**	**
Date Tested	20/12/2023	20/12/2023	20/12/2023	20/12/2023
Time Tested	10:05	10:10	10:15	10:30
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 1
Easting	527246	527261	527279	527416
Northing	6917141	6917132	6917112	6916888
Elevation (m)	50.0	50.8	51.1	53.0
Soil Description	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	37.5	37.5	37.5	37.5
Percentage of Wet Oversize (%)	29	28	15	31
Field Wet Density (FWD) t/m ³	2.14	2.21	2.24	2.17
Field Moisture Content %	9.4	9.4	7.6	7.9
Field Dry Density (FDD) t/m ³	1.95	2.02	2.08	2.01
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	**	**	2.28	**
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	**	**	2.0	**
Hilf Density Ratio (%)	**	**	98.0	**
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-37
Issue Number: 1
Date Issued: 18/01/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1166
Date Sampled: 20/12/2023
Dates Tested: 20/12/2023 - 11/01/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: Samples G23-1166A, G23-1166B, & G23-1166D have greater than 20% by mass of particles retained on the 37.5mm sieve and therefore this test method is not applicable.
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Ian Masman

Laboratory Manager

NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G23-1166E	G23-1166F	G23-1166G	
Client Sample #	**	**	**	
Date Tested	20/12/2023	20/12/2023	20/12/2023	
Time Tested	10:40	11:05	11:15	
Test Request #/Location	Stage 1	Stage 2 & 3 (Retest G23-1133C)	Stage 2 & 3 (Retest G23-1155A)	
Easting	527394	527298	527287	
Northing	6916918	6917114	6917155	
Elevation (m)	53.5	51.6	49.5	
Soil Description	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	
Test Depth (mm)	150	150	150	
Sieve used to determine oversize (mm)	37.5	37.5	37.5	
Percentage of Wet Oversize (%)	18	8	11	
Field Wet Density (FWD) t/m ³	2.17	2.23	2.23	
Field Moisture Content %	9.2	8.6	8.7	
Field Dry Density (FDD) t/m ³	1.99	2.05	2.05	
Peak Converted Wet Density t/m ³	**	**	**	
Adjusted Peak Converted Wet Density t/m ³	2.28	2.25	2.31	
Moisture Variation (Wv) %	**	**	**	
Adjusted Moisture Variation %	0.5	1.5	-0.5	
Hilf Density Ratio (%)	95.0	99.0	97.0	
Compaction Method	Standard	Standard	Standard	
Report Remarks	**	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-38
Issue Number: 1
Date Issued: 18/01/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1177
Date Sampled: 15/01/2024
Dates Tested: 15/01/2024 - 17/01/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: Samples G23-1177D to G23-1177F have greater than 20% by mass of particles retained on the 37.5mm sieve and therefore this test is not applicable.
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Ian Masman

Laboratory Manager

NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1177A	G24-1177B	G24-1177C	G24-1177D	G24-1177E	G24-1177F
Client Sample #	**	**	**	**	**	**
Date Tested	15/01/2024	15/01/2024	15/01/2024	15/01/2024	15/01/2024	15/01/2024
Time Tested	10:05	10:10	10:20	10:25	12:30	12:40
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 1	Stage 1
Easting	527367	527327	527317	527379	527420	527407
Northing	6917200	6917206	6917166	6917139	6916882	6916914
Elevation (m)	51.1	50.3	51.1	52.9	54.2	54.9
Soil Description	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown
Test Depth (mm)	150	150	150	150	150	150
Sieve used to determine oversize (mm)	37.5	37.5	37.5	37.5	37.5	37.5
Percentage of Wet Oversize (%)	14	19	18	24	24	28
Field Wet Density (FWD) t/m ³	2.22	2.26	2.30	2.19	2.14	2.17
Field Moisture Content %	10.1	8.5	7.4	6.9	6.2	5.7
Field Dry Density (FDD) t/m ³	2.01	2.08	2.14	2.05	2.02	2.05
Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.28	2.31	2.28	**	**	**
Moisture Variation (Wv) %	**	**	**	**	**	**
Adjusted Moisture Variation %	-0.5	0.0	2.0	**	**	**
Hilf Density Ratio (%)	97.0	98.0	101.0	**	**	**
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: PG-4116-A-39
Issue Number: 1
Date Issued: 01/02/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1182
Date Sampled: 23/01/2024
Dates Tested: 23/01/2024 - 25/01/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: Samples have greater than 20% by mass of particles retained on the 37.5mm sieve and therefore this test method is not applicable.
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Dave Trotman
Senior Geotechnician
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1182A	G24-1182B	
Client Sample #	**	**	
Date Tested	23/01/2024	23/01/2024	
Time Tested	10:15	10:35	
Test Request #/Location	Stage 2 & 3	Stage 1	
Easting	527348	527404	
Northing	6917232	6916913	
Elevation (m)	53.0	55.5	
Soil Description	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	37.5	37.5	
Percentage of Wet Oversize (%)	21	30	
Field Wet Density (FWD) t/m ³	2.04	2.18	
Field Moisture Content %	7.0	7.9	
Field Dry Density (FDD) t/m ³	1.91	2.02	
Peak Converted Wet Density t/m ³	**	**	
Adjusted Peak Converted Wet Density t/m ³	**	**	
Moisture Variation (Wv) %	**	**	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	**	**	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC
Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-41
Issue Number: 1
Date Issued: 01/02/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1190
Date Sampled: 25/01/2024
Dates Tested: 25/01/2024 - 30/01/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Dave Trotman
Senior Geotechnician
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1190A	G24-1190B	G24-1190C	G24-1190D	G24-1190E	G24-1190F
Client Sample #	**	**	**	**	**	**
Date Tested	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024	25/01/2024
Time Tested	10:10	10:15	13:10	13:15	13:25	13:30
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 1	Stage 1	Stage 1	Stage 1
Easting	527343	527341	527405	527422	527444	527390
Northing	6917240	6917226	6916891	6916876	6916934	6916923
Elevation (m)	50.5	51.0	56.2	55.0	56.5	57.1
Soil Description	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown
Test Depth (mm)	150	150	150	150	150	150
Sieve used to determine oversize (mm)	37.5	37.5	37.5	37.5	37.5	37.5
Percentage of Wet Oversize (%)	9	6	19	12	11	5
Field Wet Density (FWD) t/m ³	2.25	2.22	2.25	2.23	2.27	2.18
Field Moisture Content %	7.4	8.3	6.3	6.7	8.3	7.6
Field Dry Density (FDD) t/m ³	2.10	2.05	2.11	2.09	2.09	2.03
Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.23	2.25	2.29	2.27	2.31	2.29
Moisture Variation (Wv) %	**	**	**	**	**	**
Adjusted Moisture Variation %	2.0	0.5	0.5	1.0	0.0	0.5
Hilf Density Ratio (%)	101.0	98.5	98.0	98.0	98.0	95.0
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-42
Issue Number: 1
Date Issued: 09/02/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1197
Date Sampled: 02/02/2024
Dates Tested: 02/02/2024 - 06/02/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Ian Masman

Laboratory Manager

NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1197A	G24-1197B	G24-1197C
Client Sample #	**	**	**
Date Tested	02/02/2024	02/02/2024	02/02/2024
Time Tested	10:35	10:40	10:50
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3
Easting	527352	527334	527361
Northing	6917262	6917229	6917217
Elevation (m)	50.9	51.2	51.6
Soil Description	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	37.5	37.5	37.5
Percentage of Wet Oversize (%)	6	8	12
Field Wet Density (FWD) t/m ³	2.27	2.28	2.24
Field Moisture Content %	7.7	7.6	7.1
Field Dry Density (FDD) t/m ³	2.10	2.12	2.09
Peak Converted Wet Density t/m ³	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.25	2.27	2.31
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	2.5	1.5	0.5
Hilf Density Ratio (%)	101.0	100.5	97.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-43
Issue Number: 1
Date Issued: 09/02/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1200
Date Sampled: 05/02/2024
Dates Tested: 05/02/2024 - 06/02/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Ian Masman
Laboratory Manager
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1200A	G24-1200B	G24-1200C
Client Sample #	**	**	**
Date Tested	05/02/2024	05/02/2024	05/02/2024
Time Tested	10:05	10:15	10:25
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3
Easting	527365	527316	527389
Northing	6917216	6917156	6917133
Elevation (m)	60.4	61.2	62.0
Soil Description	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	37.5	37.5	37.5
Percentage of Wet Oversize (%)	15	7	12
Field Wet Density (FWD) t/m ³	2.26	2.22	2.18
Field Moisture Content %	7.4	9.2	7.8
Field Dry Density (FDD) t/m ³	2.10	2.03	2.02
Peak Converted Wet Density t/m ³	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.27	2.29	2.25
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	1.5	0.0	0.5
Hilf Density Ratio (%)	99.5	97.0	97.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-50
Issue Number: 1
Date Issued: 26/03/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1302
Date Sampled: 21/03/2024
Dates Tested: 21/03/2024 - 25/03/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Dave Trotman
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NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1302A	G24-1302B	
Client Sample #	**	**	
Date Tested	21/03/2024	21/03/2024	
Time Tested	13:10	13:20	
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	
Easting	527333	527366	
Northing	6917216	6917120	
Elevation (m)	52.1	57.1	
Soil Description	Clayey Sandy Gravel. Brown	Clayey Sandy Gravel. Brown	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	37.5	37.5	
Percentage of Wet Oversize (%)	14	7	
Field Wet Density (FWD) t/m ³	2.24	2.27	
Field Moisture Content %	5.6	5.9	
Field Dry Density (FDD) t/m ³	2.12	2.15	
Peak Converted Wet Density t/m ³	**	**	
Adjusted Peak Converted Wet Density t/m ³	2.26	2.25	
Moisture Variation (Wv) %	**	**	
Adjusted Moisture Variation %	2.5	2.0	
Hilf Density Ratio (%)	99.5	101.0	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-52
Issue Number: 1
Date Issued: 23/04/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1340
Date Sampled: 16/04/2024
Dates Tested: 16/04/2024 - 19/04/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1340A	G24-1340B	
Client Sample #	**	**	
Date Tested	16/04/2024	16/04/2024	
Time Tested	07:15	14:05	
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	
Easting	527319	527307	
Northing	6917056	6917044	
Elevation (m)	55.5	55.8	
Soil Description	Clayey Sandy Gravel. Brown	Clayey Sandy Gravel. Brown	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	37.5	37.5	
Percentage of Wet Oversize (%)	19	16	
Field Wet Density (FWD) t/m ³	2.19	2.19	
Field Moisture Content %	6.9	9.0	
Field Dry Density (FDD) t/m ³	2.05	2.01	
Peak Converted Wet Density t/m ³	**	**	
Adjusted Peak Converted Wet Density t/m ³	2.24	2.28	
Moisture Variation (Wv) %	**	**	
Adjusted Moisture Variation %	2.0	-0.5	
Hilf Density Ratio (%)	97.5	96.0	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-53
Issue Number: 1
Date Issued: 03/05/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1343
Date Sampled: 17/04/2024
Dates Tested: 17/04/2024 - 26/04/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1343A		
Client Sample #	**		
Date Tested	17/04/2024		
Time Tested	10:10		
Test Request #/Location	Stage 2 & 3		
Easting	527301		
Northing	6917030		
Elevation (m)	56.5		
Soil Description	Clayey Sandy Gravel. Brown		
Test Depth (mm)	150		
Sieve used to determine oversize (mm)	37.5		
Percentage of Wet Oversize (%)	10		
Field Wet Density (FWD) t/m ³	2.18		
Field Moisture Content %	8.1		
Field Dry Density (FDD) t/m ³	2.01		
Peak Converted Wet Density t/m ³	**		
Adjusted Peak Converted Wet Density t/m ³	2.29		
Moisture Variation (Wv) %	**		
Adjusted Moisture Variation %	1.0		
Hilf Density Ratio (%)	95.0		
Compaction Method	Standard		
Report Remarks	**		

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-54
Issue Number: 1
Date Issued: 03/05/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1362
Date Sampled: 19/04/2024
Dates Tested: 19/04/2024 - 29/04/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1362A	G24-1362B	G24-1362C	G24-1362D
Client Sample #	**	**	**	**
Date Tested	19/04/2024	19/04/2024	19/04/2024	19/04/2024
Time Tested	10:10	10:15	12:35	14:25
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3
Easting	527331	527307	527333	527262
Northing	6917101	6917047	6917041	6917038
Elevation (m)	53.9	56.1	58.2	49.9
Soil Description	Clayey Sandy Gravel. Brown	Clayey Sandy Gravel. Brown	Clayey Sandy Gravel. Brown	Clayey Sandy Gravel. Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	37.5	37.5	37.5	37.5
Percentage of Wet Oversize (%)	19	18	15	12
Field Wet Density (FWD) t/m ³	2.26	2.24	2.08	2.16
Field Moisture Content %	7.2	7.4	10.2	9.6
Field Dry Density (FDD) t/m ³	2.11	2.09	1.89	1.97
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.30	2.27	2.14	2.25
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	0.5	2.5	0.0	-1.5
Hilf Density Ratio (%)	98.5	98.5	97.5	96.0
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-55
Issue Number: 1
Date Issued: 16/05/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1388
Date Sampled: 07/05/2024
Dates Tested: 07/05/2024 - 13/05/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Dave Trotman

Senior Geotechnician

NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1388A	G24-1388B	
Client Sample #	**	**	
Date Tested	07/05/2024	07/05/2024	
Time Tested	14:20	14:30	
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	
Easting	527298	527321	
Northing	6917041	6917062	
Elevation (m)	56.5	56.2	
Soil Description	Clayey Sandy Gravel. Brown	Clayey Sandy Gravel. Brown	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	37.5	37.5	
Percentage of Wet Oversize (%)	19	18	
Field Wet Density (FWD) t/m ³	2.14	2.13	
Field Moisture Content %	7.0	7.9	
Field Dry Density (FDD) t/m ³	2.00	1.97	
Peak Converted Wet Density t/m ³	**	**	
Adjusted Peak Converted Wet Density t/m ³	2.07	2.08	
Moisture Variation (Wv) %	**	**	
Adjusted Moisture Variation %	0.5	0.0	
Hilf Density Ratio (%)	103.0	102.5	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-56
Issue Number: 1
Date Issued: 21/05/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1398
Date Sampled: 13/05/2024
Dates Tested: 13/05/2024 - 17/05/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Dave Trotman

Senior Geotechnician

NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1398A	G24-1398B	
Client Sample #	**	**	
Date Tested	13/05/2024	13/05/2024	
Time Tested	07:45	13:40	
Test Request #/Location	Stage 2 & 3	Stage 4 & 5	
Easting	527328	527462	
Northing	6917211	6917447	
Elevation (m)	51.8	36.2	
Soil Description	Sandy Clay w/ Gravel. Orange Brown	Sandy Clay. Brown	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	13	0	
Field Wet Density (FWD) t/m ³	2.20	2.06	
Field Moisture Content %	10.2	15.4	
Field Dry Density (FDD) t/m ³	2.00	1.79	
Peak Converted Wet Density t/m ³	**	2.14	
Adjusted Peak Converted Wet Density t/m ³	2.21	**	
Moisture Variation (Wv) %	**	-1.5	
Adjusted Moisture Variation %	0.5	**	
Hilf Density Ratio (%)	99.5	96.5	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-57
Issue Number: 1
Date Issued: 05/06/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1402
Date Sampled: 14/05/2024
Dates Tested: 14/05/2024 - 21/05/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Ian Masman
Laboratory Manager
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1402A	G24-1402B	G24-1402C
Client Sample #	**	**	**
Date Tested	14/05/2024	14/05/2024	14/05/2024
Time Tested	07:30	11:45	14:14
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3
Easting	527316	527300	527358
Northing	6917200	6917163	6917254
Elevation (m)	52.4	51.7	51.4
Soil Description	Sandy Clay w/ Gravel. Brown	Sandy Clay w/ Gravel. Brown	Clayey Sandy Gravel. Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	37.5
Percentage of Wet Oversize (%)	9	11	15
Field Wet Density (FWD) t/m ³	2.14	2.13	2.17
Field Moisture Content %	9.3	9.8	9.0
Field Dry Density (FDD) t/m ³	1.95	1.94	1.99
Peak Converted Wet Density t/m ³	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.16	2.15	2.28
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	2.5	2.5	-1.0
Hilf Density Ratio (%)	98.5	99.0	95.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-58
Issue Number: 1
Date Issued: 06/06/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1416
Date Sampled: 22/05/2024
Dates Tested: 22/05/2024 - 27/05/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Dave Trotman
Senior Geotechnician
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1416A		
Client Sample #	**		
Date Tested	22/05/2024		
Time Tested	09:35		
Test Request #/Location	Stage 2 & 3		
Easting	527343		
Northing	6917145		
Elevation (m)	53.4		
Soil Description	Clayey Sandy Gravel. Brown		
Test Depth (mm)	150		
Sieve used to determine oversize (mm)	37.5		
Percentage of Wet Oversize (%)	15		
Field Wet Density (FWD) t/m ³	2.23		
Field Moisture Content %	9.1		
Field Dry Density (FDD) t/m ³	2.04		
Peak Converted Wet Density t/m ³	**		
Adjusted Peak Converted Wet Density t/m ³	2.30		
Moisture Variation (Wv) %	**		
Adjusted Moisture Variation %	0.0		
Hilf Density Ratio (%)	97.0		
Compaction Method	Standard		
Report Remarks	**		

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-68
Issue Number: 1
Date Issued: 18/06/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1460
Date Sampled: 04/06/2024
Dates Tested: 04/06/2024 - 10/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Dave Trotman
Senior Geotechnician
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1460A	G24-1460B	G24-1460C
Client Sample #	**	**	**
Date Tested	04/06/2024	04/06/2024	04/06/2024
Time Tested	10:05	10:10	13:05
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3
Easting	527322	527327	527343
Northing	6917093	6917129	6917108
Elevation (m)	54.7	54.1	55.3
Soil Description	Sandy Clay w/ Gravel. Brown	Sandy Clay w/ Gravel. Brown	Sandy Clay w/ Gravel. Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	3	0	7
Field Wet Density (FWD) t/m ³	2.04	2.01	2.11
Field Moisture Content %	10.1	10.9	9.3
Field Dry Density (FDD) t/m ³	1.85	1.81	1.93
Peak Converted Wet Density t/m ³	**	2.10	**
Adjusted Peak Converted Wet Density t/m ³	2.12	**	2.16
Moisture Variation (Wv) %	**	2.0	**
Adjusted Moisture Variation %	2.5	**	2.5
Hilf Density Ratio (%)	96.5	96.0	98.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-70
Issue Number: 1
Date Issued: 18/06/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1466
Date Sampled: 05/06/2024
Dates Tested: 05/06/2024 - 11/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Dave Trotman
Senior Geotechnician
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1466A	G24-1466B	G24-1466C
Client Sample #	**	**	**
Date Tested	05/06/2024	05/06/2024	05/06/2024
Time Tested	07:45	07:55	13:05
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3
Easting	527319	527290	527276
Northing	6917069	6917041	6917026
Elevation (m)	55.5	56.2	56.6
Soil Description	Sandy Clay w/ Gravel. Brown	Sandy Clay w/ Gravel. Brown	Sandy Clay w/ Gravel. Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	12	12	11
Field Wet Density (FWD) t/m ³	2.18	2.16	2.17
Field Moisture Content %	9.3	8.8	12.1
Field Dry Density (FDD) t/m ³	1.99	1.99	1.93
Peak Converted Wet Density t/m ³	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.21	2.19	2.19
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	2.5	2.5	4.0
Hilf Density Ratio (%)	98.5	98.5	99.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-73
Issue Number: 1
Date Issued: 18/06/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1473
Date Sampled: 06/06/2024
Dates Tested: 06/06/2024 - 12/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Dave Trotman
Senior Geotechnician
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1473A	G24-1473B	G24-1473C
Client Sample #	**	**	**
Date Tested	06/06/2024	06/06/2024	06/06/2024
Time Tested	10:05	10:20	13:00
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3
Easting	527318	527351	527278
Northing	6917065	6917160	6917030
Elevation (m)	56.6	54.1	57.5
Soil Description	Sandy Clay w/ Gravel. Brown	Sandy Clay w/ Gravel. Brown	Sandy Clay. Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	9	10	9
Field Wet Density (FWD) t/m ³	2.22	2.19	2.05
Field Moisture Content %	12.3	12.2	12.7
Field Dry Density (FDD) t/m ³	1.98	1.95	1.82
Peak Converted Wet Density t/m ³	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.21	2.22	2.08
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	-1.0	-1.0	2.5
Hilf Density Ratio (%)	100.5	99.0	98.5
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-75
Issue Number: 1
Date Issued: 18/06/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1475
Date Sampled: 07/06/2024
Dates Tested: 07/06/2024 - 14/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Dave Trotman
Senior Geotechnician
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1475A	G24-1475B	G24-1475C	G24-1475D	G24-1475E
Client Sample #	**	**	**	**	**
Date Tested	07/06/2024	07/06/2024	07/06/2024	07/06/2024	07/06/2024
Time Tested	10:10	10:15	10:25	13:15	13:25
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3
Easting	527337	527313	527308	527266	527299
Northing	6917081	6917065	6917035	6917011	6917025
Elevation (m)	56.8	56.3	57.4	58.7	58.2
Soil Description	Clayey Sandy Gravel. Brown	Clayey Sandy Gravel. Brown	Clayey Sandy Gravel. Brown	Sandy Clay w/ Gravel. Brown	Sandy Clay w/ Gravel. Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	13	10	14	10	6
Field Wet Density (FWD) t/m ³	2.22	2.16	2.22	2.14	2.13
Field Moisture Content %	7.3	8.8	9.1	11.4	12.8
Field Dry Density (FDD) t/m ³	2.07	1.99	2.03	1.92	1.89
Peak Converted Wet Density t/m ³	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.23	2.24	2.25	2.17	2.17
Moisture Variation (Wv) %	**	**	**	**	**
Adjusted Moisture Variation %	2.5	0.0	0.5	-0.5	0.0
Hilf Density Ratio (%)	99.5	96.5	98.5	98.5	98.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-77
Issue Number: 1
Date Issued: 18/06/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1477
Date Sampled: 10/06/2024
Dates Tested: 10/06/2024 - 17/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Dave Trotman
Senior Geotechnician
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1477A	G24-1477B	G24-1477C
Client Sample #	**	**	**
Date Tested	10/06/2024	10/06/2024	10/06/2024
Time Tested	10:05	10:10	10:20
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3
Easting	527307	527317	527268
Northing	6917063	6917063	6917018
Elevation (m)	55.9	57.8	59.0
Soil Description	Sandy Clay w/ Gravel. Brown	Sandy Clay w/ Gravel. Brown	Sandy Clay w/ Gravel. Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	5	5	9
Field Wet Density (FWD) t/m ³	2.04	2.17	2.20
Field Moisture Content %	8.2	7.0	9.7
Field Dry Density (FDD) t/m ³	1.88	2.03	2.00
Peak Converted Wet Density t/m ³	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.12	2.16	2.19
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	2.5	4.5	3.0
Hilf Density Ratio (%)	96.0	100.5	100.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: PG-4116-A-79
Issue Number: 1
Date Issued: 19/06/2024
Client: CCA Winslow
 c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1492
Date Sampled: 12/06/2024
Dates Tested: 12/06/2024 - 18/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Accredited for compliance with ISO/IEC 17025 - Testing

Rob Sharpe

Approved Signatory: Rob Sharpe

Senior Geotechnician

NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1492A	G24-1492B	G24-1492C	G24-1492D	G24-1492E
Client Sample #	**	**	**	**	**
Date Tested	12/06/2024	12/06/2024	12/06/2024	12/06/2024	12/06/2024
Time Tested	10:05	10:10	10:20	13:15	13:25
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3
Easting	527313	527302	527274	527332	527312
Northing	6917075	6917044	6917017	6917051	6917014
Elevation (m)	57.3	59.4	60.2	59.5	60.5
Soil Description	Sandy Clay w/ Gravel. Brown	Sandy Clay w/ Gravel. Brown	Sandy Clay w/ Gravel. Brown	Sandy Clay w/ Gravel. Brown	Sandy Clay w/ Gravel. Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	15	15	5	20	17
Field Wet Density (FWD) t/m ³	2.17	2.19	2.08	2.14	2.15
Field Moisture Content %	10.4	10.8	10.1	8.9	8.9
Field Dry Density (FDD) t/m ³	1.96	1.98	1.89	1.97	1.97
Peak Converted Wet Density t/m ³	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.22	2.24	2.19	2.21	2.18
Moisture Variation (Wv) %	**	**	**	**	**
Adjusted Moisture Variation %	2.5	2.0	2.0	1.5	1.5
Hilf Density Ratio (%)	97.5	98.0	95.0	96.5	98.5
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-81
Issue Number: 1
Date Issued: 19/06/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1502
Date Sampled: 14/06/2024
Dates Tested: 14/06/2024 - 18/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Sandy Gravelly Clay
Material Source: On site

Pacific Geotech Pty Ltd
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Approved Signatory: Rob Sharpe

Senior Geotechnician

NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1502A		
Client Sample #	**		
Date Tested	14/06/2024		
Time Tested	09:55		
Test Request #/Location	Stage 2 & 3 (Lot 217)		
Easting	527188		
Northing	6917060		
Layer / Reduced Level	Finished Level		
Soil Description	Sandy Gravelly Clay		
Test Depth (mm)	150		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	19		
Field Wet Density (FWD) t/m ³	2.08		
Field Moisture Content %	8.6		
Field Dry Density (FDD) t/m ³	1.92		
Peak Converted Wet Density t/m ³	**		
Adjusted Peak Converted Wet Density t/m ³	2.18		
Moisture Variation (Wv) %	**		
Adjusted Moisture Variation %	2.0		
Hilf Density Ratio (%)	95.5		
Compaction Method	Standard		
Report Remarks	**		

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-82
Issue Number: 1
Date Issued: 19/06/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1506
Date Sampled: 17/06/2024
Dates Tested: 18/06/2024 - 18/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Clayey Sandy Gravel
Material Source: Onsite

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Approved Signatory: Rob Sharpe

Senior Geotechnician

NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1506A	G24-1506B	
Client Sample #	**	**	
Date Tested	17/06/2024	17/06/2024	
Time Tested	13:00	13:10	
Test Request #/Location	Stages 2 & 3 (Lot 186)	Stages 2 & 3 (Lot 196)	
Easting	527367	527290	
Northing	6917275	6917144	
Elevation (m)	51.6	53.3	
Soil Description	Clayey Sandy Gravel	Sandy Gravelly Clay	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	18	19	
Field Wet Density (FWD) t/m ³	2.29	2.12	
Field Moisture Content %	5.5	8.5	
Field Dry Density (FDD) t/m ³	2.17	1.95	
Peak Converted Wet Density t/m ³	**	**	
Adjusted Peak Converted Wet Density t/m ³	2.34	2.19	
Moisture Variation (Wv) %	**	**	
Adjusted Moisture Variation %	1.0	1.5	
Hilf Density Ratio (%)	98.0	97.0	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-85
Issue Number: 1
Date Issued: 20/06/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1486
Date Sampled: 11/06/2024
Dates Tested: 11/06/2024 - 18/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Dave Trotman
Senior Geotechnician
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1486A	G24-1486B	
Client Sample #	**	**	
Date Tested	11/06/2024	11/06/2024	
Time Tested	13:20	13:30	
Test Request #/Location	Stages 2 & 3	Stages 2 & 3	
Easting	527318	527281	
Northing	6917053	6917017	
Elevation (m)	58.5	59.5	
Soil Description	Clayey Sandy Gravel, brown	Clayey Sandy Gravel, brown	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	12	15	
Field Wet Density (FWD) t/m ³	2.08	2.13	
Field Moisture Content %	8.7	14.8	
Field Dry Density (FDD) t/m ³	1.91	1.85	
Peak Converted Wet Density t/m ³	**	**	
Adjusted Peak Converted Wet Density t/m ³	2.17	2.13	
Moisture Variation (Wv) %	**	**	
Adjusted Moisture Variation %	2.5	3.5	
Hilf Density Ratio (%)	96.0	99.5	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-86
Issue Number: 1
Date Issued: 25/06/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1507
Date Sampled: 18/06/2024
Dates Tested: 18/06/2024 - 20/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Dave Trotman

Senior Geotechnician

NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1507A	G24-1507B	G24-1507C	G24-1507D
Client Sample #	**	**	**	**
Date Tested	18/06/2024	18/06/2024	18/06/2024	18/06/2024
Time Tested	08:15	08:25	08:30	09:05
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3
Easting	527359	527364	527269	527401
Northing	6917151	6917137	6917113	6917145
Elevation (m)	55.6	56.6	59.2	57.1
Soil Description	Sandy Clay w/ Gravel. Brown	Sandy Clay w/ Gravel. Brown	Sandy Clay w/ Gravel. Brown	Sandy Clay w/ Gravel. Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	11	18	18	13
Field Wet Density (FWD) t/m ³	2.06	2.15	2.12	2.15
Field Moisture Content %	9.5	8.9	8.2	8.2
Field Dry Density (FDD) t/m ³	1.88	1.97	1.96	1.99
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.07	2.13	2.14	2.13
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	2.5	3.5	4.0	4.0
Hilf Density Ratio (%)	99.5	101.0	99.0	101.0
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: PG-4116-A-87
Issue Number: 1
Date Issued: 25/06/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1509
Date Sampled: 19/06/2024
Dates Tested: 19/06/2024 - 20/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Dave Trotman
Senior Geotechnician
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1509A	G24-1509B	G24-1509C
Client Sample #	**	**	**
Date Tested	19/06/2024	19/06/2024	19/06/2024
Time Tested	09:10	09:20	13:15
Test Request #/Location	Stage 2 & 3	Stage 2 & 3	Stage 2 & 3
Easting	527271	527297	527210
Northing	6917038	6917055	6917047
Elevation (m)	56.5	57.5	57.0
Soil Description	Clayey Sandy Gravel. Brown	Clayey Sandy Gravel. Brown	Sandy Clay w/ Gravel. Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	37.5	37.5	19.0
Percentage of Wet Oversize (%)	16	16	7
Field Wet Density (FWD) t/m ³	2.28	2.25	2.08
Field Moisture Content %	7.0	8.2	7.6
Field Dry Density (FDD) t/m ³	2.13	2.08	1.93
Peak Converted Wet Density t/m ³	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.26	2.27	2.17
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	4.0	4.5	2.5
Hilf Density Ratio (%)	101.0	99.0	96.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-88
Issue Number: 1
Date Issued: 25/06/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1511
Date Sampled: 20/06/2024
Dates Tested: 20/06/2024 - 24/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Dave Trotman
Senior Geotechnician
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1511A		
Client Sample #	**		
Date Tested	20/06/2024		
Time Tested	09:35		
Test Request #/Location	Stage 2 & 3		
Easting	527211		
Northing	6917103		
Elevation (m)	55.7		
Soil Description	Sandy Clay w/ Gravel. Brown		
Test Depth (mm)	150		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	12		
Field Wet Density (FWD) t/m ³	2.12		
Field Moisture Content %	8.5		
Field Dry Density (FDD) t/m ³	1.95		
Peak Converted Wet Density t/m ³	**		
Adjusted Peak Converted Wet Density t/m ³	2.18		
Moisture Variation (Wv) %	**		
Adjusted Moisture Variation %	1.5		
Hilf Density Ratio (%)	97.0		
Compaction Method	Standard		
Report Remarks	**		

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-89
Issue Number: 1
Date Issued: 05/07/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1515
Date Sampled: 21/06/2024
Dates Tested: 21/06/2024 - 04/07/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Dave Trotman
Senior Geotechnician
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1515A	G24-1515B	G24-1515C
Client Sample #	**	**	**
Date Tested	21/06/2024	21/06/2024	21/06/2024
Time Tested	12:45	12:55	13:15
Test Request #/Location	Stage 3	Stage 3	Stage 3
Easting	527306	527274	527243
Northing	6917068	6917029	6917006
Elevation (m)	58.3	59.8	57.6
Soil Description	Clayey Sandy Gravel. Brown	Clayey Sandy Gravel. Brown	Sandy Clay w/ Gravel. Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	37.5	37.5	19.0
Percentage of Wet Oversize (%)	18	16	4
Field Wet Density (FWD) t/m ³	2.32	2.22	2.08
Field Moisture Content %	6.9	5.9	12.3
Field Dry Density (FDD) t/m ³	2.17	2.10	1.85
Peak Converted Wet Density t/m ³	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.27	2.24	2.17
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	2.0	2.0	-0.5
Hilf Density Ratio (%)	102.0	99.0	96.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-91
Issue Number: 1
Date Issued: 05/07/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1530
Date Sampled: 26/06/2024
Dates Tested: 26/06/2024 - 04/07/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Dave Trotman
Senior Geotechnician
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1530A		
Client Sample #	**		
Date Tested	26/06/2024		
Time Tested	08:10		
Test Request #/Location	Stage 3		
Easting	527237		
Northing	6917008		
Elevation (m)	58.5		
Soil Description	Sandy Clay w/ Gravel. Brown		
Test Depth (mm)	150		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	6		
Field Wet Density (FWD) t/m ³	2.11		
Field Moisture Content %	8.5		
Field Dry Density (FDD) t/m ³	1.94		
Peak Converted Wet Density t/m ³	**		
Adjusted Peak Converted Wet Density t/m ³	2.18		
Moisture Variation (Wv) %	**		
Adjusted Moisture Variation %	0.5		
Hilf Density Ratio (%)	96.5		
Compaction Method	Standard		
Report Remarks	**		

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-92
Issue Number: 1
Date Issued: 08/07/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1542
Date Sampled: 01/07/2024
Dates Tested: 01/07/2024 - 05/07/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Dave Trotman
Senior Geotechnician
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1542A	G24-1542B	G24-1542C	G24-1542D
Client Sample #	**	**	**	**
Date Tested	01/07/2024	01/07/2024	01/07/2024	01/07/2024
Time Tested	11:55	12:10	13:15	13:25
Test Request #/Location	Stage 3	Stage 3	Stage 3	Stage 3
Easting	527819	527241	527208	527236
Northing	6917258	6917061	6917038	6917103
Elevation (m)	52.9	53.9	56.8	53.0
Soil Description	Sandy Clay w/ Gravel. Brown	Sandy Clay w/ Gravel. Brown	Clayey Sandy Gravel. Brown	Sandy Clay w/ Gravel. Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	37.5	19.0
Percentage of Wet Oversize (%)	9	11	18	6
Field Wet Density (FWD) t/m ³	2.04	2.09	2.19	2.02
Field Moisture Content %	10.3	7.9	8.5	7.9
Field Dry Density (FDD) t/m ³	1.85	1.93	2.02	1.87
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.09	2.08	2.26	2.04
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	0.5	2.0	0.0	2.0
Hilf Density Ratio (%)	97.5	100.5	96.5	98.5
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-93
Issue Number: 1
Date Issued: 05/08/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1555
Date Sampled: 12/07/2024
Dates Tested: 12/07/2024 - 24/07/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Ian Masman

Laboratory Manager

NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1555A	G24-1555B	G24-1555C	G24-1555D	G24-1555E
Client Sample #	**	**	**	**	**
Date Tested	12/07/2024	12/07/2024	12/07/2024	12/07/2024	12/07/2024
Time Tested	10:05	10:15	10:20	13:10	13:20
Test Request #/Location	Stage 3	Stage 3	Stage 3	Stage 3	Stage 3
Easting	527254	527264	527245	527264	527231
Northing	6917106	6917083	6917060	6917116	6917047
Elevation (m)	53.0	54.0	54.7	52.5	55.2
Soil Description	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	37.5	19.0
Percentage of Wet Oversize (%)	6	5	6	7	5
Field Wet Density (FWD) t/m ³	2.17	2.15	2.14	2.17	2.19
Field Moisture Content %	13.4	11.4	10.4	9.5	11.5
Field Dry Density (FDD) t/m ³	1.91	1.93	1.94	1.98	1.96
Peak Converted Wet Density t/m ³	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.21	2.23	2.20	2.23	2.21
Moisture Variation (Wv) %	**	**	**	**	**
Adjusted Moisture Variation %	0.0	-0.5	0.5	0.0	0.0
Hilf Density Ratio (%)	98.0	96.5	97.5	97.0	99.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-94
Issue Number: 1
Date Issued: 05/08/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1562
Date Sampled: 16/07/2024
Dates Tested: 16/07/2024 - 01/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Ian Masman
Laboratory Manager
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1562A	G24-1562B	G24-1562C	G24-1562D
Client Sample #	**	**	**	**
Date Tested	16/07/2024	16/07/2024	16/07/2024	16/07/2024
Time Tested	10:05	10:10	10:20	10:25
Test Request #/Location	Stage 3	Stage 3	Stage 3	Stage 3
Easting	527233	527234	527222	527251
Northing	6917150	6917104	6917076	6917063
Elevation (m)	51.5	53.7	55.4	56.0
Soil Description	Clayey Sandy Gravel. Brown	Clayey Sandy Gravel. Brown	Sandy Clay w/ Gravel. Brown	Sandy Clay w/ Gravel. Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	37.5	37.5	19.0	19.0
Percentage of Wet Oversize (%)	10	7	0	5
Field Wet Density (FWD) t/m ³	2.20	2.22	2.04	2.04
Field Moisture Content %	9.4	10.6	12.1	10.7
Field Dry Density (FDD) t/m ³	2.01	2.01	1.82	1.84
Peak Converted Wet Density t/m ³	**	**	2.10	**
Adjusted Peak Converted Wet Density t/m ³	2.24	2.25	**	2.10
Moisture Variation (Wv) %	**	**	0.0	**
Adjusted Moisture Variation %	-0.5	-0.5	**	-0.5
Hilf Density Ratio (%)	98.5	98.5	97.0	97.0
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-95
Issue Number: 1
Date Issued: 05/08/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1572
Date Sampled: 17/07/2024
Dates Tested: 17/07/2024 - 02/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Ian Masman

Laboratory Manager

NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1572A	G24-1572B	G24-1572C
Client Sample #	**	**	**
Date Tested	17/07/2024	17/07/2024	17/07/2024
Time Tested	15:05	15:15	15:30
Test Request #/Location	Stage 3	Stage 3	Stage 3
Easting	527252	527210	527248
Northing	6917081	6917079	6917131
Elevation (m)	55.6	55.8	52.4
Soil Description	Sandy Clay w/ Gravel. Brown	Sandy Clay w/ Gravel. Brown	Sandy Clay w/ Gravel. Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	6	8
Field Wet Density (FWD) t/m ³	2.05	2.06	2.15
Field Moisture Content %	9.9	11.3	10.4
Field Dry Density (FDD) t/m ³	1.86	1.86	1.95
Peak Converted Wet Density t/m ³	2.14	**	**
Adjusted Peak Converted Wet Density t/m ³	**	2.11	2.18
Moisture Variation (Wv) %	-1.0	**	**
Adjusted Moisture Variation %	**	0.0	-0.5
Hilf Density Ratio (%)	96.0	97.5	98.5
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-96
Issue Number: 1
Date Issued: 05/08/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1575
Date Sampled: 18/07/2024
Dates Tested: 18/07/2024 - 01/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1575A	G24-1575B	G24-1575C	G24-1575D
Client Sample #	**	**	**	**
Date Tested	18/07/2024	18/07/2024	18/07/2024	18/07/2024
Time Tested	13:10	13:15	13:25	13:30
Test Request #/Location	Stage 3	Stage 3	Stage 3	Stage 3
Easting	527252	527244	527220	527223
Northing	6917080	6917132	6917137	6917107
Elevation (m)	55.9	53.2	53.8	55.0
Soil Description	Sandy Clay. Brown	Sandy Clay. Brown	Sandy Clay. Brown	Sandy Clay. Brown
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	5
Field Wet Density (FWD) t/m ³	1.93	2.02	2.01	2.02
Field Moisture Content %	16.5	17.6	17.5	10.0
Field Dry Density (FDD) t/m ³	1.66	1.72	1.71	1.83
Peak Converted Wet Density t/m ³	2.00	2.06	2.07	**
Adjusted Peak Converted Wet Density t/m ³	**	**	**	2.05
Moisture Variation (Wv) %	0.0	0.5	0.0	**
Adjusted Moisture Variation %	**	**	**	-1.0
Hilf Density Ratio (%)	96.5	98.5	97.5	98.5
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-97
Issue Number: 1
Date Issued: 05/08/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1558
Date Sampled: 15/07/2024
Dates Tested: 15/07/2024 - 01/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Laboratory Manager

NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1558A	G24-1558B	G24-1558C	G24-1558D	G24-1558E
Client Sample #	**	**	**	**	**
Date Tested	15/07/2024	15/07/2024	15/07/2024	15/07/2024	15/07/2024
Time Tested	07:15	07:20	07:30	09:45	09:55
Test Request #/Location	Stage 3	Stage 3	Stage 3	Stage 3	Stage 3
Easting	527249	527268	527238	527242	527222
Northing	6917063	6917083	6917082	6917113	6917085
Elevation (m)	55.5	55.0	55.2	52.7	53.7
Soil Description	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown	Sandy Gravelly Clay. Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	8	5	5	3	10
Field Wet Density (FWD) t/m ³	2.21	2.10	2.11	2.14	2.13
Field Moisture Content %	11.1	11.1	12.1	9.6	10.5
Field Dry Density (FDD) t/m ³	1.99	1.89	1.89	1.95	1.92
Peak Converted Wet Density t/m ³	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.29	2.18	2.15	2.17	2.18
Moisture Variation (Wv) %	**	**	**	**	**
Adjusted Moisture Variation %	-1.0	-1.0	-1.0	0.0	-0.5
Hilf Density Ratio (%)	96.5	96.5	98.0	99.0	97.5
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-98
Issue Number: 1
Date Issued: 15/08/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1579
Date Sampled: 19/07/2024
Dates Tested: 19/07/2024 - 06/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Ian Masman
Laboratory Manager
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1579A	G24-1579B	G24-1579C
Client Sample #	**	**	**
Date Tested	19/07/2024	19/07/2024	19/07/2024
Time Tested	13:10	13:15	13:25
Test Request #/Location	Stage 3	Stage 3	Stage 3
Easting	527227	527223	527247
Northing	6917053	6917110	6917145
Elevation (m)	57.0	55.1	51.2
Soil Description	Sandy Clay w/ Gravel. Brown	Sandy Clay w/ Gravel. Brown	Sandy Clay w/ Gravel. Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	7	5	11
Field Wet Density (FWD) t/m ³	2.14	2.10	2.11
Field Moisture Content %	10.2	12.7	13.5
Field Dry Density (FDD) t/m ³	1.94	1.86	1.86
Peak Converted Wet Density t/m ³	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.20	2.19	2.17
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	2.5	1.0	0.5
Hilf Density Ratio (%)	97.5	95.5	97.5
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-99
Issue Number: 1
Date Issued: 19/08/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1602
Date Sampled: 26/07/2024
Dates Tested: 26/07/2024 - 15/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Ian Masman

Laboratory Manager

NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1602A	G24-1602B	G24-1602C
Client Sample #	**	**	**
Date Tested	26/07/2024	26/07/2024	26/07/2024
Time Tested	10:05	10:15	10:20
Test Request #/Location	Stage 3	Stage 3	Stage 3
Easting	527244	527196	527201
Northing	6917142	6917097	6917075
Elevation (m)	53.0	57.5	59.2
Soil Description	Sandy Clay. Brown	Sandy Clay. Brown	Sandy Clay. Brown
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	4	10	7
Field Wet Density (FWD) t/m ³	2.03	2.04	2.00
Field Moisture Content %	13.7	13.9	13.3
Field Dry Density (FDD) t/m ³	1.79	1.79	1.77
Peak Converted Wet Density t/m ³	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.12	2.12	2.03
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	0.5	0.5	2.0
Hilf Density Ratio (%)	96.0	96.5	98.5
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: PG-4116-A-100
Issue Number: 1
Date Issued: 19/08/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1594
Date Sampled: 24/07/2024
Dates Tested: 24/07/2024 - 15/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1594A	G24-1594B	
Client Sample #	**	**	
Date Tested	24/07/2024	24/07/2024	
Time Tested	10:10	10:20	
Test Request #/Location	Stage 3	Stage 3	
Easting	527209	527246	
Northing	6917078	6917062	
Elevation (m)	57.5	57.5	
Soil Description	Sandy Clay w/ Gravel. Brown	Sandy Clay. Brown	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	3	0	
Field Wet Density (FWD) t/m ³	1.99	2.01	
Field Moisture Content %	9.0	18.9	
Field Dry Density (FDD) t/m ³	1.83	1.69	
Peak Converted Wet Density t/m ³	**	2.04	
Adjusted Peak Converted Wet Density t/m ³	2.09	**	
Moisture Variation (Wv) %	**	0.0	
Adjusted Moisture Variation %	2.0	**	
Hilf Density Ratio (%)	95.5	98.5	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-101
Issue Number: 1
Date Issued: 19/08/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1597
Date Sampled: 25/07/2024
Dates Tested: 25/07/2024 - 15/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1597A	G24-1597B	G24-1597C	G24-1597D
Client Sample #	**	**	**	**
Date Tested	25/07/2024	25/07/2024	25/07/2024	25/07/2024
Time Tested	10:20	10:25	10:45	10:55
Test Request #/Location	Stage 3	Stage 3	Stage 3	Stage 3
Easting	527202	527221	527245	527252
Northing	6917026	6917043	6917065	6917090
Elevation (m)	58.5	59.0	58.3	56.8
Soil Description	Sandy Clay. Brown	Sandy Clay. Brown	Sandy Clay. Brown	Sandy Clay. Brown
Test Depth (mm)	150	150	150	150
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	2.03	2.03	2.00	2.01
Field Moisture Content %	15.3	15.5	18.6	18.3
Field Dry Density (FDD) t/m ³	1.76	1.75	1.69	1.70
Peak Converted Wet Density t/m ³	2.11	2.13	2.06	2.08
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	0.0	0.0	0.5	0.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	96.5	95.5	97.0	97.0
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: PG-4116-A-102
Issue Number: 1
Date Issued: 19/08/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1608
Date Sampled: 29/07/2024
Dates Tested: 29/07/2024 - 15/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1608A	G24-1608B	
Client Sample #	**	**	
Date Tested	29/07/2024	29/07/2024	
Time Tested	12:35	12:45	
Test Request #/Location	Stage 3	Stage 3	
Easting	527231	527209	
Northing	6917130	6917107	
Elevation (m)	54.6	56.5	
Soil Description	Sandy Clay w/ Gravel. Orange	Sandy Clay w/ Gravel. Orange	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	17	17	
Field Wet Density (FWD) t/m ³	2.11	2.12	
Field Moisture Content %	11.0	11.1	
Field Dry Density (FDD) t/m ³	1.90	1.91	
Peak Converted Wet Density t/m ³	**	**	
Adjusted Peak Converted Wet Density t/m ³	2.15	2.15	
Moisture Variation (Wv) %	**	**	
Adjusted Moisture Variation %	2.0	2.0	
Hilf Density Ratio (%)	98.0	99.0	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-103
Issue Number: 1
Date Issued: 19/08/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1611
Date Sampled: 30/07/2024
Dates Tested: 30/07/2024 - 15/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Ian Masman
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NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1611A		
Client Sample #	**		
Date Tested	30/07/2024		
Time Tested	09:45		
Test Request #/Location	Stage 3		
Easting	527258		
Northing	6916992		
Elevation (m)	60.6		
Soil Description	Sandy Clay w/ Gravel. Brown		
Test Depth (mm)	150		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	13		
Field Wet Density (FWD) t/m ³	2.01		
Field Moisture Content %	9.8		
Field Dry Density (FDD) t/m ³	1.83		
Peak Converted Wet Density t/m ³	**		
Adjusted Peak Converted Wet Density t/m ³	2.09		
Moisture Variation (Wv) %	**		
Adjusted Moisture Variation %	2.0		
Hilf Density Ratio (%)	96.5		
Compaction Method	Standard		
Report Remarks	**		

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-104
Issue Number: 1
Date Issued: 19/08/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1623
Date Sampled: 31/07/2024
Dates Tested: 31/07/2024 - 15/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Ian Masman
Laboratory Manager
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1623A		
Client Sample #	**		
Date Tested	31/07/2024		
Time Tested	10:45		
Test Request #/Location	Stage 3		
Easting	527262		
Northing	6917009		
Elevation (m)	60.1		
Soil Description	Sandy Clay w/ Gravel. Brown		
Test Depth (mm)	150		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	7		
Field Wet Density (FWD) t/m ³	2.00		
Field Moisture Content %	8.4		
Field Dry Density (FDD) t/m ³	1.85		
Peak Converted Wet Density t/m ³	**		
Adjusted Peak Converted Wet Density t/m ³	2.10		
Moisture Variation (Wv) %	**		
Adjusted Moisture Variation %	1.5		
Hilf Density Ratio (%)	95.5		
Compaction Method	Standard		
Report Remarks	**		

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-105
Issue Number: 1
Date Issued: 19/08/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1641
Date Sampled: 05/08/2024
Dates Tested: 05/08/2024 - 15/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Ian Masman
Laboratory Manager
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1641A		
Client Sample #	**		
Date Tested	05/08/2024		
Time Tested	11:45		
Test Request #/Location	Stage 3		
Easting	527235		
Northing	6916988		
Elevation (m)	63.0		
Soil Description	Sandy Clay w/ Gravel. Orange Brown		
Test Depth (mm)	150		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	13		
Field Wet Density (FWD) t/m ³	2.06		
Field Moisture Content %	8.2		
Field Dry Density (FDD) t/m ³	1.90		
Peak Converted Wet Density t/m ³	**		
Adjusted Peak Converted Wet Density t/m ³	2.08		
Moisture Variation (Wv) %	**		
Adjusted Moisture Variation %	2.5		
Hilf Density Ratio (%)	98.5		
Compaction Method	Standard		
Report Remarks	**		

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-107
Issue Number: 1
Date Issued: 22/08/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1582
Date Sampled: 22/07/2024
Dates Tested: 22/07/2024 - 16/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Ian Masman
Laboratory Manager
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1582A	G24-1582B	G24-1582C	G24-1582D	G24-1582E
Client Sample #	**	**	**	**	**
Date Tested	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Time Tested	10:05	10:10	10:20	10:25	10:45
Test Request #/Location	Stage 3	Stage 3	Stage 3	Stage 3	Stage 3
Easting	527231	527215	527253	527269	527208
Northing	6917145	6917124	6917084	6917093	6917037
Elevation (m)	53.1	54.7	56.4	55.2	57.7
Soil Description	Sandy Clay. Brown	Sandy Clay. Brown	Sandy Clay. Brown	Sandy Clay. Brown	Sandy Clay. Brown
Test Depth (mm)	150	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	6	0	0
Field Wet Density (FWD) t/m ³	2.04	2.02	2.07	2.12	2.08
Field Moisture Content %	16.0	16.1	14.5	17.1	15.5
Field Dry Density (FDD) t/m ³	1.76	1.74	1.80	1.81	1.80
Peak Converted Wet Density t/m ³	2.11	2.11	**	2.16	2.15
Adjusted Peak Converted Wet Density t/m ³	**	**	2.10	**	**
Moisture Variation (Wv) %	0.5	0.0	**	0.0	0.0
Adjusted Moisture Variation %	**	**	2.0	**	**
Hilf Density Ratio (%)	96.5	95.5	98.5	98.0	97.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-108
Issue Number: 1
Date Issued: 22/08/2024
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 1586
Date Sampled: 23/07/2024
Dates Tested: 23/07/2024 - 16/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Earthworks Fill
Material Source: Onsite

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Approved Signatory: Ian Masman
Laboratory Manager
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G24-1586A		
Client Sample #	**		
Date Tested	23/07/2024		
Time Tested	12:35		
Test Request #/Location	Stage 3		
Easting	527231		
Northing	6917054		
Elevation (m)	57.9		
Soil Description	Sandy Clay. Brown		
Test Depth (mm)	150		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	0		
Field Wet Density (FWD) t/m ³	1.99		
Field Moisture Content %	22.7		
Field Dry Density (FDD) t/m ³	1.62		
Peak Converted Wet Density t/m ³	2.07		
Adjusted Peak Converted Wet Density t/m ³	**		
Moisture Variation (Wv) %	0.5		
Adjusted Moisture Variation %	**		
Hilf Density Ratio (%)	96.0		
Compaction Method	Standard		
Report Remarks	**		

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: PG-4116-A-116
Issue Number: 1
Date Issued: 26/06/2025
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 2292
Date Sampled: 16/06/2025 11:45
Dates Tested: 16/06/2025 - 24/06/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Sandy Gravelly Clay
Material Source: site

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Approved Signatory: Ian Masman
Laboratory Manager
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G25-2292A		
Client Sample #	**		
Date Tested	16/06/2025		
Time Tested	11:45		
Test Request #/Location	Lot 223, Eastern Batter		
Easting	527251		
Northing	6917142		
Layer / Reduced Level	0.2m Below FL		
Soil Description	Sandy Gravelly Clay		
Test Depth (mm)	150		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	18		
Field Wet Density (FWD) t/m ³	2.12		
Field Moisture Content %	11.0		
Field Dry Density (FDD) t/m ³	1.91		
Peak Converted Wet Density t/m ³	**		
Adjusted Peak Converted Wet Density t/m ³	2.21		
Moisture Variation (Wv) %	**		
Adjusted Moisture Variation %	0.5		
Hilf Density Ratio (%)	96.0		
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: PG-4116-A-117
Issue Number: 1
Date Issued: 26/06/2025
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 2306
Date Sampled: 18/06/2025 09:00
Dates Tested: 18/06/2025 - 24/06/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Sandy Gravelly Clay
Material Source: Site

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Approved Signatory: Ian Masman
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NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G25-2306A		
Client Sample #	**		
Date Tested	18/06/2025		
Time Tested	09:00		
Test Request #/Location	Lot 223 NE Batter		
Easting	527240		
Northing	6917152		
Layer / Reduced Level	Finished Level		
Soil Description	Sandy Gravelly Clay		
Test Depth (mm)	150		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	11		
Field Wet Density (FWD) t/m ³	2.12		
Field Moisture Content %	11.0		
Field Dry Density (FDD) t/m ³	1.91		
Peak Converted Wet Density t/m ³	**		
Adjusted Peak Converted Wet Density t/m ³	2.16		
Moisture Variation (Wv) %	**		
Adjusted Moisture Variation %	0.0		
Hilf Density Ratio (%)	98.0		
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: PG-4116-A-119
Issue Number: 1
Date Issued: 30/06/2025
Client: CCA Winslow
c/o 3 Jowett Street, Coomera Qld 4209,
Project Number: PG-4116-A
Project Name: Residential Subdivision
Project Location: Courtney Drive, Upper Coomera
Work Request: 2315
Date Sampled: 20/06/2025 9:30
Dates Tested: 20/06/2025 - 24/06/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Compaction
Site Selection: Selected by GTA
Location: Upper Coomera
Material: Sandy Gravelly Clay
Material Source: Site

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Approved Signatory: Ian Masman
Laboratory Manager
NATA Accredited Laboratory Number: 21130

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	G25-2315A		
Client Sample #	**		
Date Tested	20/06/2025		
Time Tested	09:30		
Test Request #/Location	Stage 3, Lot 223, Northern Batter Fill		
Easting	527224		
Northing	6917155		
Layer / Reduced Level	Finished Level		
Soil Description	Sandy Gravelly Clay		
Test Depth (mm)	150		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	7		
Field Wet Density (FWD) t/m ³	2.01		
Field Moisture Content %	10.1		
Field Dry Density (FDD) t/m ³	1.83		
Peak Converted Wet Density t/m ³	**		
Adjusted Peak Converted Wet Density t/m ³	2.11		
Moisture Variation (Wv) %	**		
Adjusted Moisture Variation %	0.0		
Hilf Density Ratio (%)	95.5		
Compaction Method	Standard		
Remarks	**		

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC