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17th September 2019

Ref No: 393_Akron Civil_Andrew St_Bundamba

Akron Civil & Drainage Pty Ltd
626 Old Gympie Road
Narangba QLD 4504

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

ANDREW ST BUNDAMBA (72 Nelson St)

Lots 10, 11, 12 & 13

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

Fill was placed on the allotment between 26/08/19 and 3/09/19. This report covers the bulk fill materials placed on the site.

The minimum Density Ratio requirement of 95% standard compaction has been achieved and the compaction test results are attached to this certificate.

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

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

Yours faithfully

Jason Mckenna
Laboratory Manager
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Compaction Control Test Report (Nuclear Gauge & Hilf)

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Client:	Akron Civil & Drainage	Report No:	18
Client Address:	626 Old Gympie Rd, Narangba QLD 4504	Report Date:	6/09/2019
Project:	Andrew St, Bundamba	Project No:	393
Component:	Level 1 Testing	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	29076	29077	29078	-	-
Field Test Number:	-	-	-	-	-
Date - Field Tested:	3/09/2019	3/09/2019	3/09/2019	-	-
Time - Field Tested:	1100	1108	1115	-	-
Material Source / Type:	On Site - Allotment Fill				
Remarks / Notes:					
Control Line:	Lot 10	Lot 11	Lot 12		
Location/Chainage/Easting: (m)	25m South, 2m East	28m South, 3m West	24m South, 4m West	-	-
Position/Offset/Northing: (m)	NW Corner	NE Corner	NE Corner	-	-
Level/Layer/R.L.	FL	FL	FL	-	-
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	-	-

Field & Laboratory Results

Field Wet Density: (t/m ³)	1.89	1.88	1.89	-	-
Field Dry Density: (t/m ³)	1.67	1.66	1.70	-	-
Retained Oversize (Wet basis): (%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	-	-
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
Field Moisture Content: (%)	13.5	13.0	11.5	-	-
Adjusted Lab OMC: (%)	15.0	14.7	12.9	-	-
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density: (t/m ³)	1.97	1.96	1.98	-	-
Adjusted Lab Max CWD: (t/m ³)	1.97	1.96	1.98	-	-
Compactive Effort:	Standard	Standard	Standard	-	-

Relative Compaction & Moisture

Moisture Variation (%)	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	-	-
Moisture Ratio (%)	89.5	90.0	88.0	-	-
Density Ratio (%)	96.0	95.5	95.5	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	95.5	3	95.60	0.17	0.739
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

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

Remarks Regarding the Lot.

Laboratory testing 04/09/2019 to 05/09/2019



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

NATA Accreditation number: 19902

Approved By:

A. Lenkeit
 Approved Signatory