

CIVIL GEOTECHNICAL SERVICES ABN 26 474 013 724

PO Box 678 Croydon Vic 3136 Telephone: 9723 0744 Facsimile: 9723 0799

16th May 2017

Our Reference: 17060:GB168

Australand Residential No 156 P/L Level 9, 484 St Kilda Road MELBOURNE VIC 3004

Dear Sirs,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING HONOUR VILLAGE ESTATE – STAGE 1, BERWICK

Please find attached our Report Nos 17060/R001 to 17060/R037 that relate to the field density testing that was conducted within the filled allotments at the above subdivision. The level 1 inspections and associated field density testing commenced in early February 2017 and was completed in mid March 2017

The inspections and testing of the earthworks was undertaken in general accordance with the Level 1 requirements of AS 3798 - Guidelines on Earthworks for Commercial and Residential Developments.

The site inspections and testing was performed by an experienced geotechnician from this office. Any areas that were deemed unsatisfactory were reworked and retested under their supervision. The testing was performed to the relevant Australian Standards and the accompanying test reports carry NATA endorsement. The attached compaction results, which were located randomly throughout the fill profile, are considered to be representative of the bulk fill materials that were placed across the filled allotments by Rokon during the aforementioned period. The approximate locations of the field density tests can be seen on the attached plan (Figure 1).

We are of the view that the bulk fill materials that have been placed across the filled allotments by Rokon during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Griffin Brown





 CIVIL GEOTECHNICAL SERVICES
 Job No
 17060

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 17060/R001

 Date Issued
 17/02/17

ClientAUSTRALAND RESIDENTIAL NO 156 P/LTested byJWMProjectHONOUR VILLAGE ESTATEDate tested01/02/17LocationBERWICKChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 12:01

Test procedure AS 1289.2.1.1 & 5.8.1	
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Test No		1	2	3	4	-	-
Location		REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1		
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	-	-
Field wet density	t/m³	1.97	2.03	1.86	1.87	-	-
Field moisture content	%	18.7	20.1	16.5	17.5	-	-

Test procedure AS 1289.5.7.1

Test No	·	1	2	3	4	-	-
Compactive effort		Standard					
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	-	-
Percent of oversize material	wet	0	0	0	0	-	-
Peak Converted Wet Density	t/m³	2.02	1.98	1.92	1.95	-	-
Adjusted Peak Converted Wet Density	t/m³	1	-	-	-	-	-
Optimum Moisture Content	%	19.0	20.0	19.0	19.5	-	-

Moisture Variation From	0.5%	0.0%	2.5%	1.5%	-	-
Optimum Moisture Content	dry		dry	dry		

Density Ratio (R _{HD})	%	98.0	102.5	97.0	96.0	-	-

Material description

No 1 - 4 Clay Fill



Approved Signatory: Justin Fry



Job No 17060 CIVIL GEOTECHNICAL SERVICES Report No 17060/R002 Date Issued 6 - 8 Rose Avenue, Croydon 3136 20/02/17 AUSTRALAND RESIDENTIAL NO156 P/L Client Tested by JWM Project HONOUR VILLAGE ESTATE Date tested 02/02/17 Location PAKENHAM Checked by JHF

Feature EARTHWORKS Layer thickness 200 mm Time: 08:40

Test procedure AS	1289.2.1.1	& 5.8.1
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Test No		5	6	7	-	-	-
Location		REFER TO	REFER TO	REFER TO			
		FIGURE 1	FIGURE 1	FIGURE 1			
Approximate depth below FSL							
Measurement depth	mm	175	175	175	-	-	-
Field wet density	t/m³	1.95	1.97	1.88	-	-	-
Field moisture content	%	20.5	19.8	12.8	-	-	-

Test procedure AS 1289.5.7.1

Test No		5	6	7	-	-	-
Compactive effort		Standard					
Oversize rock retained on sieve	mm	19.0	19.0	19.0	-	-	-
Percent of oversize material	wet	0	0	0	-	-	-
Peak Converted Wet Density	t/m³	2.02	2.00	1.98	-	-	-
Adjusted Peak Converted Wet Density	t/m³	1	-	-	-	-	-
Optimum Moisture Content	%	20.5	20.0	13.0	-	-	-

Moisture Variation From	0.0%	0.0%	0.5%	-	-	-
Optimum Moisture Content			dry			

Density Ratio (R _{HD})	%	96.5	98.5	95.0	-	-	-

Material description

No 5 - 7 Clay Fill



July 3

Approved Signatory : Justin Fry



 CIVIL GEOTECHNICAL SERVICES
 Job No
 17060

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 17060/R003

 Date Issued
 22/02/17

ClientAUSTRALAND RESIDENTIAL NO 156 P/LTested byJWMProjectHONOUR VILLAGE ESTATEDate tested03/02/17LocationBERWICKChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 06:59

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		8	9	10	11	12	-
Location							
		REFER	REFER	REFER	REFER	REFER	
		TO	ТО	ТО	TO	TO	
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	-
Field wet density	t/m³	1.85	2.04	2.01	1.94	2.04	-
Field moisture content	%	22.6	21.5	19.6	24.8	23.2	-

Test procedure AS 1289.5.7.1

Test No		0	<u> </u>	10	11	10	
Test No		Ø	9	10	I I	12	-
Compactive effort		Standard					
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	-
Percent of oversize material	wet	0	0	0	0	0	-
Peak Converted Wet Density	t/m³	1.94	1.95	2.00	1.96	2.07	-
Adjusted Peak Converted Wet Density	t/m³	1	-	-	-	-	-
Optimum Moisture Content	%	24.5	22.0	20.0	21.5	21.0	-

Moisture Variation From	2.0%	0.5%	0.0%	3.0%	2.0%	-
Optimum Moisture Content	dry	dry		wet	wet	

Density Ratio (R _{HD})	%	95.5	104.5	101.0	98.5	98.5	-

Material description

No 8 - 12 Clay Fill



Approved Signatory: Justin Fry



Job No CIVIL GEOTECHNICAL SERVICES Report No

20/02/17

6 - 8 Rose Avenue, Croydon 3136

Date Issued

17060/R004

17060

JWM

AUSTRALAND RESIDENTIAL NO 156 P/L Client Project HONOUR VILLAGE ESTATE

Tested by Date tested

04/02/17

Location **BERWICK** Checked by

JHF

Feature **EARTHWORKS** Layer thickness 200 mm Time: 07:39

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		13	14	15	16	17	18
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	2.00	1.95	2.01	1.95	1.97	1.97
Field moisture content	%	20.9	19.0	20.1	23.1	22.2	23.5

Test procedure AS 1289.5.7.1

Test No		13	14	15	16	17	18
Compactive effort				Stan	dard		
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m³	2.01	1.97	1.95	1.98	2.01	2.00
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	20.5	21.0	22.0	21.5	21.0	21.5

Moisture Variation From	0.0%	1.5%	1.5%	1.5%	1.5%	2.0%
Optimum Moisture Content		dry	dry	wet	wet	wet

Density Ratio (R _{HD})	%	99.5	99.5	103.0	98.5	97.5	98.5

Material description

No 13 - 18 Clay Fill



Approved Signatory : Justin Fry



Job No 17060 CIVIL GEOTECHNICAL SERVICES Report No 17060/R005 Date Issued 6 - 8 Rose Avenue, Croydon 3136 20/02/17 AUSTRALAND RESIDENTIAL NO 156 P/L Client Tested by JWM Project HONOUR VILLAGE ESTATE Date tested 04/02/17 Location **BERWICK** Checked by JHF

Feature EARTHWORKS Layer thickness 200 mm Time: 08:27

Test No		19	20	-	=	-	=
Location		REFER TO FIGURE 1	REFER TO FIGURE 1				
Approximate depth below FSL							
Measurement depth	mm	175	175	-	-	-	-
Field wet density	t/m³	1.98	2.01	-	-	-	-
Field moisture content	%	22.6	23.3	-	-	-	-

Test procedure AS 1289.5.7.1

Test No		19	20	-	-	-	-
Compactive effort		Standard					
Oversize rock retained on sieve	mm	19.0	19.0	-	-	-	-
Percent of oversize material	wet	0	0	-	-	-	-
Peak Converted Wet Density	t/m³	2.05	2.02	-	-	-	-
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	20.5	22.5	-	-	-	-

Moisture Variation From	2.0%	1.0%	-	-	-	-
Optimum Moisture Content	wet	wet				

Density Ratio (R _{HD})	%	97.0	99.5	-	-	-	-

Material description

No 19 - 20 Clay Fill



Approved Signatory: Justin Fry



 CIVIL GEOTECHNICAL SERVICES
 Job No
 17060

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 17060/R006

 Date Issued
 24/02/17

ClientAUSTRALAND RESIDENTIAL NO 156 P/LTested byJWMProjectHONOUR VILLAGE ESTATEDate tested04/02/17LocationBERWICKChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 11:39

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		21	22	23	24	25	26
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.94	2.01	1.99	1.98	1.97	2.02
Field moisture content	%	21.8	21.5	20.4	21.8	23.1	22.5

Test procedure AS 1289.5.7.1

Test No		21	22	23	24	25	26
Compactive effort			•	Stan	dard		
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m³	2.01	2.00	1.99	2.01	2.00	2.00
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	21.5	20.5	20.0	20.5	21.0	21.0

Moisture Variation From	0.5%	1.0%	0.0%	1.0%	2.0%	1.5%
Optimum Moisture Content	wet	wet		wet	wet	wet

Density Ratio (R _{HD})	%	96.5	100.5	99.5	98.5	98.0	101.0

Material description

No 21 - 26 Clay Fill



Approved Signatory: Justin Fry



Job No 17060 CIVIL GEOTECHNICAL SERVICES Report No 17060/R007 Date Issued 6 - 8 Rose Avenue, Croydon 3136 23/02/17 AUSTRALAND RESIDENTIAL NO 156 P/L Client Tested by JWM Project HONOUR VILLAGE ESTATE Date tested 08/02/17 Location **BERWICK** Checked by JHF

Feature **EARTHWORKS** Layer thickness 200 mm Time: 08:12

Test procedure AS	1289.2.1.1 & 5.8.1
Test No	

Test No		27	28	-	-	-	-
Location		REFER TO FIGURE 1	REFER TO FIGURE 1				
Approximate depth below FSL							
Measurement depth	mm	175	175	-	-	-	-
Field wet density	t/m³	2.00	1.95	-	-	-	-
Field moisture content	%	19.3	22.0	-	-	-	-

Test procedure AS 1289.5.7.1

Test No	·	27	28	-	-	-	-
Compactive effort				Stan	dard		
Oversize rock retained on sieve	mm	19.0	19.0	-	-	-	-
Percent of oversize material	wet	0	0	-	-	-	-
Peak Converted Wet Density	t/m³	2.03	2.02	-	-	-	-
Adjusted Peak Converted Wet Density	t/m³	1	-	-	-	-	-
Optimum Moisture Content	%	19.5	20.5	-	-	-	-

Moisture Variation From	0.0%	1.5%	-	-	-	-
Optimum Moisture Content		wet				

Density Ratio (R _{HD})	%	98.5	97.0	-	-	-	-

Material description

No 27 - 28 Clay Fill



Approved Signatory : Justin Fry



 CIVIL GEOTECHNICAL SERVICES
 Job No
 17060

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 17060/R008

 Date Issued
 23/02/17

ClientAUSTRALAND RESIDENTIAL NO 156 P/LTested byJWMProjectHONOUR VILLAGE ESTATEDate tested08/02/17LocationBERWICKChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 13:37

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		29	30	31	32	-	-
Location		REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1		
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	-	•
Field wet density	t/m³	1.89	1.92	1.91	1.91	-	-
Field moisture content	%	27.9	24.3	25.3	27.5	-	-

Test procedure AS 1289.5.7.1

Test No		29	30	31	32	-	-
Compactive effort				Stan	ıdard		
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	-	•
Percent of oversize material	wet	0	0	0	0	-	•
Peak Converted Wet Density	t/m³	1.98	1.96	1.99	1.98	-	1
Adjusted Peak Converted Wet Density	t/m³	1	-	-	-	-	1
Optimum Moisture Content	%	29.5	25.0	25.0	27.0	-	-

Moisture Variation From	1.5%	1.0%	0.0%	0.5%	-	-
Optimum Moisture Content	dry	dry		wet		

Density Ratio (R _{HD})	%	95.5	98.0	96.0	96.5	-	-

Material description

No 29 - 32 Clay Fill



Approved Signatory: Justin Fry



CIVIL GEOTECHNICAL SERVICES

Report No

17060 17060/R009

6 - 8 Rose Avenue, Croydon 3136

Date Issued

Job No

28/02/17

Client Project AUSTRALAND RESIDENTIAL NO 156 P/L HONOUR VILLAGE ESTATE Tested by Date tested

Checked by

09/02/17 JHF

JWM

Location BERWICK

Feature

EARTHWORKS

Layer thickness

200 mm

Time: 07:53

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		33	34	35	36	37	38
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		ТО	ТО	ТО	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.99	1.96	2.01	2.04	2.04	2.05
Field moisture content	%	21.7	19.8	21.9	18.8	17.3	18.4

Test procedure AS 1289.5.7.1

Test No		33	34	35	36	37	38
Compactive effort		- 55	<u> </u>		dard	01	30
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m³	2.03	2.04	2.05	2.08	2.09	2.07
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	19.0	19.5	19.5	18.0	17.0	17.5

Moisture Variation From	2.5%	0.0%	2.0%	0.5%	0.0%	1.0%
Optimum Moisture Content	wet		wet	wet		wet

Density Ratio (R _{HD})	%	98.5	96.5	98.0	98.5	98.0	99.0

Material description

No 33 - 38 Clay Fill



Approved Signatory: Justin Fry



Job No 17060 CIVIL GEOTECHNICAL SERVICES Report No 17060/R010 Date Issued 6 - 8 Rose Avenue, Croydon 3136 16/02/17 AUSTRALAND RESIDENTIAL NO 156 P/L Client Tested by JWM Project HONOUR VILLAGE ESTATE Date tested 09/02/17 Location **BERWICK** Checked by JHF

Feature EARTHWORKS Layer thickness 200 mm Time: 11:00

Test procedure AS 128	89.2.1.1 & 5.8.1
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Test No		39	40	41	-	-	-
Location							
		REFER	REFER	REFER			
		TO	TO	TO			
		FIGURE 1	FIGURE 1	FIGURE 1			
Approximate depth below FSL							
Measurement depth	mm	175	175	175	1	-	-
Field wet density	t/m³	1.92	1.95	1.93	1	-	-
Field moisture content	%	22.5	21.4	27.7	-	-	-

Test procedure AS 1289.5.7.1

Test No	·	39	40	41	-	-	-
Compactive effort				Stan	dard		
Oversize rock retained on sieve	mm	19.0	19.0	19.0	-	-	-
Percent of oversize material	wet	0	0	0	-	-	-
Peak Converted Wet Density	t/m³	2.03	2.05	1.98	-	-	-
Adjusted Peak Converted Wet Density	t/m³	1	-	-	-	-	-
Optimum Moisture Content	%	20.5	19.0	28.0	-	-	-

Moisture Variation From	2.0%	2.5%	0.0%	-	-	-
Optimum Moisture Content	wet	wet				

Density Ratio (R _{HD})	%	95.0	95.0	97.5	-	-	-

Material description

No 39 - 41 Clay Fill



July Jo

Approved Signatory : Justin Fry



 CIVIL GEOTECHNICAL SERVICES
 Job No
 17060

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 17060/R011

 Date Issued
 21/02/17

ClientAUSTRALAND RESIDENTIAL NO 156 P/LTested byAGProjectHONOUR VILLAGE ESTATEDate tested10/02/17LocationBERWICKChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 11:34

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		42	43	44	45	46	47
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	2.00	2.06	2.01	1.95	2.00	1.97
Field moisture content	%	22.0	21.9	22.4	24.4	23.3	22.4

Test procedure AS 1289.5.7.1

Test No		42	43	44	45	46	47
Compactive effort			•	Stan	dard		
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m³	2.06	2.00	2.01	2.05	2.05	2.02
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	20.0	20.5	20.0	20.5	21.0	21.5

Moisture Variation From	2.0%	1.5%	2.0%	2.0%	2.0%	1.0%
Optimum Moisture Content	wet	wet	wet	wet	wet	wet

Density Ratio (R _{HD}) %	97.5	103.0	100.0	95.0	97.5	97.5
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Material description

No 42 - 47 Clay Fill



Approved Signatory: Justin Fry



 CIVIL GEOTECHNICAL SERVICES
 Job No
 17060

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 17060/R012

 Date Issued
 22/02/17

ClientAUSTRALAND RESIDENTIAL NO 156 P/LTested byAGProjectHONOUR VILLAGE ESTATEDate tested10/02/17LocationBERWICKChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 14:08

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		48	49	50	51	52	53
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		ТО	ТО	ТО	TO	ТО	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.90	1.97	1.90	1.96	1.92	1.92
Field moisture content	%	26.6	28.4	29.0	24.7	22.4	22.4

Test procedure AS 1289.5.7.1

Test No		48	49	50	51	52	53
Compactive effort				Stan	ndard		
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m³	1.99	2.01	1.99	2.02	2.01	2.02
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	•
Optimum Moisture Content	%	27.0	27.0	28.0	22.0	20.5	20.5

Moisture Variation From	0.5%	1.5%	1.0%	2.5%	2.0%	2.0%
Optimum Moisture Content	dry	wet	wet	wet	wet	wet

Density Ratio (R _{HD})	%	95.5	98.0	95.5	97.0	95.5	95.0

Material description

No 48 - 53 Clay Fill



Approved Signatory: Justin Fry



 CIVIL GEOTECHNICAL SERVICES
 Job No
 17060

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 17060/R013

 Date Issued
 03/03/17

ClientAUSTRALAND RESIDENTIAL NO 156 P/LTested byAGProjectHONOUR VILLAGE ESTATEDate tested11/02/17LocationBERWICKChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 07:47

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		54	55	56	57	58	59
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.94	1.89	1.93	1.93	1.91	1.91
Field moisture content	%	23.6	27.0	23.9	22.1	21.2	20.0

Test procedure AS 1289.5.7.1

Test No		54	55	56	57	58	59
Compactive effort				Stan	dard		
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m³	2.02	1.97	2.01	2.03	2.00	1.96
Adjusted Peak Converted Wet Density	t/m³	1	-	-	-	-	-
Optimum Moisture Content	%	23.5	28.5	25.0	21.5	20.0	21.0

Moisture Variation From	0.0%	1.5%	1.5%	0.5%	1.5%	1.0%
Optimum Moisture Content		dry	dry	wet	wet	dry

Density Ratio (R _{HD})	%	96.0	96.0	95.5	95.5	95.5	97.0

Material description

No 54 - 59 Clay Fill



Approved Signatory: Justin Fry



 CIVIL GEOTECHNICAL SERVICES
 Job No
 17060

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 17060/R014

 Date Issued
 03/03/17

ClientAUSTRALAND RESIDENTIAL NO 156 P/LTested byAGProjectHONOUR VILLAGE ESTATEDate tested11/02/17LocationBERWICKChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 11:06

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		60	61	62	63	64	65
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	TO	ТО	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.98	1.98	1.97	1.99	2.03	1.99
Field moisture content	%	16.9	18.4	18.7	13.8	18.6	17.9

Test procedure AS 1289.5.7.1

Test No		60	61	62	63	64	65
Compactive effort			O1		dard	01	- 00
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m³	1.97	2.02	2.04	2.03	2.07	2.09
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	19.0	19.0	18.5	16.5	18.0	17.5

Moisture Variation From	2.0%	0.5%	0.5%	2.5%	0.5%	0.5%
Optimum Moisture Content	dry	dry	wet	dry	wet	wet

Density Ratio (R _{HD}) %	100.0	98.0	97.0	98.0	98.0	95.0
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Material description

No 60 - 65 Clay Fill



Approved Signatory : Justin Fry



 CIVIL GEOTECHNICAL SERVICES
 Job No
 17060

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 17060/R015

 Date Issued
 21/02/17

ClientAUSTRALAND RESIDENTIAL NO 156 P/LTested byAGProjectHONOUR VILLAGE ESTATEDate tested13/02/17LocationBERWICKChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 13:13

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		66	67	68	69	70	71
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	2.01	2.05	1.98	2.05	2.00	2.04
Field moisture content	%	17.3	18.9	22.6	16.3	15.8	30.8

Test procedure AS 1289.5.7.1

Test No		66	67	68	69	70	71
Compactive effort			•	Stan	dard	•	
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m³	2.06	2.08	2.05	2.05	2.04	2.03
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	17.5	18.0	20.5	17.0	17.0	28.5

Moisture Variation From	0.0%	1.0%	2.0%	1.0%	1.0%	2.0%
Optimum Moisture Content		wet	wet	dry	dry	wet

Density Ratio (R _{HD})	%	98.0	99.0	96.5	100.0	98.0	100.5

Material description

No 66 - 71 Clay Fill



Approved Signatory: Justin Fry



 CIVIL GEOTECHNICAL SERVICES
 Job No
 17060

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 17060/R016

 Date Issued
 03/03/17

ClientAUSTRALAND RESIDENTIAL NO 156 P/LTested byAGProjectHONOUR VILLAGE ESTATEDate tested13/02/17LocationBERWICKChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 14:04

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		72	73	74	75	76	77
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.90	1.94	1.97	1.89	1.88	1.92
Field moisture content	%	19.6	21.1	15.7	20.3	27.6	28.9

Test procedure AS 1289.5.7.1

Test No		72	73	74	75	76	77
Compactive effort				Stan	dard		
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m³	1.97	2.03	2.02	1.94	1.96	1.97
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	•
Optimum Moisture Content	%	20.5	20.5	17.5	20.0	28.5	28.0

Moisture Variation From	0.5%	0.5%	1.5%	0.0%	0.5%	1.0%
Optimum Moisture Content	dry	wet	dry		dry	wet

Density Ratio (R _{HD})	%	96.5	95.5	97.5	97.5	96.0	97.5

Material description

No 72 - 77 Clay Fill



Approved Signatory: Justin Fry



 CIVIL GEOTECHNICAL SERVICES
 Job No
 17060

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 17060/R017

 Date Issued
 21/02/17

ClientAUSTRALAND RESIDENTIAL NO 156 P/LTested byJWMProjectHONOUR VILLAGE ESTATEDate tested14/02/17

Location BERWICK Checked by JHF

Feature EARTHWORKS Layer thickness 200 mm Time: 09:20

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		78	79	80	81	82	83
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.92	1.94	1.96	2.01	1.90	1.92
Field moisture content	%	32.2	32.1	29.8	27.7	31.2	29.6

Test procedure AS 1289.5.7.1

Test No		78	79	80	81	82	83
Compactive effort		70	10		ndard	02	- 00
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m³	2.02	1.98	1.99	1.99	1.97	2.00
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	30.0	31.0	27.0	26.0	28.5	27.5

Moisture Variation From	2.0%	1.0%	2.5%	1.5%	2.5%	2.0%
Optimum Moisture Content	wet	wet	wet	wet	wet	wet

Density Ratio (R _{HD}) %	95.0	98.0	98.5	101.0	96.5	96.0	
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Material description

No 78 - 83 Clay Fill



Approved Signatory: Justin Fry



 CIVIL GEOTECHNICAL SERVICES
 Job No
 17060

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 17060/R018

 Date Issued
 20/02/17

ClientAUSTRALAND RESIDENTIAL NO 156 P/LTested byJWMProjectHONOUR VILLAGE ESTATEDate tested14/02/17LocationPAKENHAMChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 12:29

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		84	85	86	87	88	89
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.91	1.93	1.93	1.97	1.95	1.96
Field moisture content	%	31.0	32.3	32.6	23.8	29.7	29.7

Test procedure AS 1289.5.7.1

Test No		84	85	86	87	88	89
Compactive effort				Stan	dard		
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m³	1.97	1.98	1.95	1.92	1.98	1.98
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	29.0	29.5	30.5	22.0	28.0	27.0

Moisture Variation From	2.0%	2.5%	1.5%	1.5%	1.5%	2.5%
Optimum Moisture Content	wet	wet	wet	wet	wet	wet

Density Ratio (R _{HD}) %	97.0	97.5	99.0	102.5	98.0	99.5	
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Material description

No 84 - 89 Clay Fill



Approved Signatory: Justin Fry



 CIVIL GEOTECHNICAL SERVICES
 Job No
 17060

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 17060/R019

 Date Issued
 28/02/17

ClientAUSTRALAND RESIDENTIAL NO 156 P/LTested byJWMProjectHONOUR VILLAGE ESTATEDate tested15/02/17LocationBERWICKChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 09:01

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		90	91	92	93	94	95
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		ТО	TO	ТО	ТО	ТО	ТО
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.99	1.95	1.92	1.91	1.91	1.90
Field moisture content	%	26.4	30.6	31.7	32.1	32.7	31.5

Test procedure AS 1289.5.7.1

Test No		90	91	92	93	94	95
Compactive effort				Stan	dard		
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m³	2.00	1.98	1.94	1.91	1.96	1.95
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	24.0	28.0	31.0	31.5	32.0	30.5

Moisture Variation From	2.5%	2.5%	0.5%	0.5%	1.0%	1.0%
Optimum Moisture Content	wet	wet	wet	wet	wet	wet

Density Ratio (R _{HD}) %	99.5	98.5	98.5	100.0	98.0	97.5	
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Material description

No 90 - 95 Clay Fill



Approved Signatory: Justin Fry



 CIVIL GEOTECHNICAL SERVICES
 Job No
 17060

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 17060/R020

 Date Issued
 28/03/2017

ClientAUSTRALAND RESIDENTIAL, No 156 P/LTested byJWMProjectHONOUR VILLAGE ESTATEDate tested15/02/17LocationBERWICKChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 10:57

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		96	97	98	99	100	101
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	2.01	1.96	1.96	1.93	2.02	2.00
Field moisture content	%	20.8	27.5	22.3	25.1	23.5	27.5

Test procedure AS 1289.5.7.1

Test No		96	97	98	99	100	101
Compactive effort				Stan	ndard		
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m³	2.10	2.06	2.06	2.04	2.10	2.09
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	19.0	24.5	19.5	22.5	21.0	25.0

Moisture Variation From	2.0%	2.5%	2.0%	2.5%	2.5%	2.5%
Optimum Moisture Content	wet	wet	wet	wet	wet	wet

Density Ratio (R _{HD})	%	96.0	95.0	95.5	95.0	96.0	95.5

Material description

No 96 - 10 Clay Fill



Approved Signatory : Justin Fry



 CIVIL GEOTECHNICAL SERVICES
 Job No
 17060

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 17060/R021

 Date Issued
 15/03/17

ClientAUSTRALAND RESIDENTIAL NO 156 P/LTested byJWMProjectHONOUR VILLAGE ESTATEDate tested16/02/17LocationBERWICKChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 08:49

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		102	103	104	105	106	107
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.96	1.90	1.94	1.91	1.90	1.88
Field moisture content	%	28.8	33.3	31.4	34.2	31.8	33.9

Test procedure AS 1289.5.7.1

1631 procedure A6 1203.0.1.1							
Test No		102	103	104	105	106	107
Compactive effort				Stan	dard		
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m³	1.98	1.97	1.94	1.94	1.90	1.95
Adjusted Peak Converted Wet Density	t/m³		-	-	-	-	-
Optimum Moisture Content	%	27.0	32.0	30.0	32.5	30.5	32.5

Moisture Variation From	1.5%	1.0%	1.0%	1.5%	1.0%	1.5%
Optimum Moisture Content	wet	wet	wet	wet	wet	wet

Density Ratio (R _{HD})	%	99.0	96.5	99.5	98.5	100.5	96.5

Material description

No 102 - 1 Clay Fill



Approved Signatory: Justin Fry



 CIVIL GEOTECHNICAL SERVICES
 Job No
 17060

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 17060/R022

 Date Issued
 13/04/2017

ClientAUSTRALAND RESIDENTIAL NO 156 P/LTested byJWMProjectHONOUR VILLAGE ESTATEDate tested16/02/17LocationBERWICKChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 10:43

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		108	109	110	111	112	113
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	2.00	1.95	1.91	1.94	1.91	1.92
Field moisture content	%	24.1	26.4	30.0	29.3	31.5	32.3

Test procedure AS 1289.5.7.1

Test No		108	109	110	111	112	113
Compactive effort				Stan	dard		
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m³	2.04	2.03	1.99	1.99	2.00	1.95
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	22.0	24.5	27.0	27.0	28.5	30.5

Moisture Variation From	2.0%	2.0%	2.5%	2.0%	2.5%	1.5%
Optimum Moisture Content	wet	wet	wet	wet	wet	wet

Density Ratio (R _{HD}) %	98.0	96.0	96.0	97.5	95.5	98.5
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Material description

No 108 - 1 Clay Fill



Approved Signatory: Justin Fry



 CIVIL GEOTECHNICAL SERVICES
 Job No
 17060

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 17060/R023

 Date Issued
 13/04/2017

ClientAUSTRALAND RESIDENTIAL NO 156 P/LTested byJWMProjectHONOUR VILLAGE ESTATEDate tested17/02/17LocationBERWICKChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 08:13

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		114	115	116	117	118	-
Location							
		REFER	REFER	REFER	REFER	REFER	
		TO	ТО	TO	TO	TO	
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	-
Field wet density	t/m³	1.88	1.88	1.89	1.92	1.85	-
Field moisture content	%	26.2	31.4	29.9	31.7	32.1	-

Test procedure AS 1289.5.7.1

Test No		114	115	116	117	118	-
Compactive effort				Stan	ıdard		
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	-
Percent of oversize material	wet	0	0	0	0	0	-
Peak Converted Wet Density	t/m³	1.98	1.97	1.95	2.00	1.93	-
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	25.0	29.0	27.5	29.0	30.0	-

Moisture Variation From	1.5%	2.0%	2.5%	2.5%	2.0%	-
Optimum Moisture Content	wet	wet	wet	wet	wet	

Density Ratio (R _{HD})	%	95.0	95.5	96.5	96.0	96.0	-

Material description

No 114 - 1 Clay Fill



Approved Signatory: Justin Fry



 CIVIL GEOTECHNICAL SERVICES
 Job No
 17060

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 17060/R024

 Date Issued
 12/04/17

ClientAUSTRALAND RESIDENTIAL NO 156 P/LTested byJWMProjectHONOUR VILLAGE ESTATEDate tested18/02/17LocationBERWICKChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 11:57

Test procedure	4.5	12892	1 .	1 &	581	1

Test No		119	120	121	122	123	124
Location		REFER TO FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.92	1.95	1.95	1.98	1.93	1.97
Field moisture content	%	28.1	26.9	24.4	27.1	26.5	24.9

Test procedure AS 1289.5.7.1

Test No		119	120	121	122	123	124
Compactive effort				Stan	dard		
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m³	2.01	2.05	2.05	2.06	2.03	2.06
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	25.5	24.5	23.0	25.0	25.0	22.5

Moisture Variation From	2.0%	2.0%	1.0%	2.0%	1.0%	2.0%
Optimum Moisture Content	wet	wet	wet	wet	wet	wet

Density Ratio (R _{HD})	%	95.5	95.0	95.0	96.0	95.0	96.0

Material description

No 119 - 1 Clay Fill



Approved Signatory : Justin Fry



 CIVIL GEOTECHNICAL SERVICES
 Job No
 17060

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 17060/R025

 Date Issued
 12/04/2017

ClientAUSTRALAND RESIDENTIAL NO 156 P/LTested byJWMProjectHONOUR VILLAGE ESTATEDate tested24/02/17LocationBERWICKChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 09:22

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		125	126	127	128	129	130
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	2.02	1.98	1.93	1.96	1.98	2.00
Field moisture content	%	21.4	25.6	28.2	25.0	27.3	22.8

Test procedure AS 1289.5.7.1

[=		40=	400	4.0-	400	400	400		
Test No		125	126	127	128	129	130		
Compactive effort		Standard							
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0		
Percent of oversize material	wet	0	0	0	0	0	0		
Peak Converted Wet Density	t/m³	2.04	2.00	2.02	2.00	1.98	2.05		
Adjusted Peak Converted Wet Density	t/m³	1	-	-	-	-	-		
Optimum Moisture Content	%	21.5	24.5	25.5	23.5	26.5	22.0		

Moisture Variation From	0.0%	1.0%	2.5%	1.5%	0.5%	1.0%
Optimum Moisture Content		wet	wet	wet	wet	wet

Density Ratio (R _{HD}) %	99.0	99.0	96.0	98.5	100.0	98.0	
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Material description

No 125 - 1 Clay Fill



Approved Signatory: Justin Fry



 CIVIL GEOTECHNICAL SERVICES
 Job No
 17060

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 17060/R026

 Date Issued
 15/03/17

ClientAUSTRALAND RESIDENTIAL NO 156 P/LTested byJWMProjectHONOUR VILLAGE ESTATEDate tested27/02/17LocationBERWICKChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 12:00

Test No		131	132	133	-	-	-
Location							
		REFER	REFER	REFER			
		TO	TO	TO			
		FIGURE 1	FIGURE 1	FIGURE 1			
Approximate depth below FSL							
		4	4	475			
Measurement depth	mm	175	175	175	-	-	-
•	mm t/m³	2.00	1/5	1.97	-	-	
Measurement depth Field wet density Field moisture content					- - -	-	-
Field wet density Field moisture content	t/m³	2.00	1.92	1.97	-	-	-
Field wet density Field moisture content Test procedure AS 1289.5.7.1	t/m³	2.00	1.92	1.97	-	-	-
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No	t/m³	2.00 27.2	1.92 27.6	1.97 28.6	-	-	-
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort	t/m³	2.00 27.2	1.92 27.6	1.97 28.6	-	-	-
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve	t/m³ %	2.00 27.2	1.92 27.6	1.97 28.6 133 Stan	- - - dard	-	
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material	t/m³ % mm	2.00 27.2 131	1.92 27.6 132	1.97 28.6 133 Stan 19.0	- - - dard	-	
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density	t/m³ % mm wet	2.00 27.2 131 19.0	1.92 27.6 132 19.0	1.97 28.6 133 Stan 19.0	- - dard - -	-	-
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet Density	t/m³ % mm wet t/m³	2.00 27.2 131 19.0 0 2.03	1.92 27.6 132 19.0	1.97 28.6 133 Stan 19.0	- - dard - -	- -	-
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet Density	mm wet t/m³ t/m³	2.00 27.2 131 19.0 0 2.03	1.92 27.6 132 19.0 0 1.99	1.97 28.6 133 Stan 19.0 0 1.98	- - dard - - -	- - - - -	-
Field wet density Field moisture content	mm wet t/m³ t/m³	2.00 27.2 131 19.0 0 2.03	1.92 27.6 132 19.0 0 1.99	1.97 28.6 133 Stan 19.0 0 1.98	- - dard - - -	- - - - -	-

Material description

No 131 - 1 Clay Fill



Approved Signatory : Justin Fry



 CIVIL GEOTECHNICAL SERVICES
 Job No
 17060

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 17060/R027

 Date Issued
 05/05/17

ClientAUSTRALAND RESIDENTIAL NO 156 P/LTested byJWMProjectHONOUR VILLAGE ESTATEDate tested01/03/17LocationBERWICKChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 09:04

Test procedure	4.5	12892	1 .	1 &	581	1

Test No		134	135	136	137	138	139
Location		REFER TO FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	2.04	2.00	1.99	1.94	1.98	1.95
Field moisture content	%	20.5	15.1	23.3	26.4	24.1	22.7

Test procedure AS 1289.5.7.1

Test No		134	135	136	137	138	139
Compactive effort				Star	ıdard		
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m³	2.13	2.12	2.09	2.01	2.06	2.03
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	19.5	15.5	21.0	24.0	21.5	22.5

Moisture Variation From	1.0%	0.5%	2.0%	2.5%	2.5%	0.0%
Optimum Moisture Content	wet	dry	wet	wet	wet	

Density Ratio (R _{HD})	%	95.5	95.0	95.5	96.5	96.0	96.0

Material description

No 134 - 1 Clay Fill



Approved Signatory: Justin Fry



 CIVIL GEOTECHNICAL SERVICES
 Job No
 17060

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 17060/R028

 Date Issued
 19/04/17

ClientAUSTRALAND RESIDENTIAL NO 156 P/LTested byJWMProjectHONOUR VILLAGE ESTATEDate tested02/03/17LocationBERWICKChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 09:47

Test procedure	4.5	12892	1 .	1 &	581	1

Test No		140	141	142	143	144	145
Location		REFER TO FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.99	2.02	2.05	2.07	1.95	1.98
Field moisture content	%	21.8	20.8	21.9	14.1	22.3	23.6

Test procedure AS 1289.5.7.1

Test No		140	141	142	143	144	145
Compactive effort				Star	ndard		
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m³	2.08	2.12	2.14	2.12	2.05	2.06
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	19.0	18.5	19.5	14.5	20.0	21.0

Moisture Variation From	2.5%	2.0%	2.5%	0.5%	2.5%	2.5%
Optimum Moisture Content	wet	wet	wet	dry	wet	wet

Density Ratio (R _{HD})	%	95.5	95.5	96.0	97.5	95.0	96.0

Material description

No 140 - 1 Clay Fill



Approved Signatory : Justin Fry



ClientAUSTRALAND RESIDENTIAL NO 156 P/LTested byJWMProjectHONOUR VILLAGE ESTATEDate tested03/03/17LocationBERWICKChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 08:02

Test No		146	147	148	-	-	-
Location							
		REFER	REFER	REFER			
		ТО	ТО	ТО			
		FIGURE 1	FIGURE 1	FIGURE 1			
Approximate depth below FSL							
Measurement depth	mm	175	175	175	-	-	-
Field wet density	t/m³	2.01	2.04	2.06	-	-	-
Field moisture content	%	24.3	21.6	25.0	-	-	-
							•
Test procedure AS 1289.5.7.1							
1 531 PHOCEGUIE AS 1203.3.7.1							
·		146	147	148	-	-	-
Test No		146	147	148 Stan	- dard	-	-
Test No Compactive effort	mm	146	147		- dard -	-	-
Test No Compactive effort Oversize rock retained on sieve	mm wet			Stan			<u> </u>
Test No Compactive effort Oversize rock retained on sieve Percent of oversize material		19.0	19.0	Stan 19.0			
Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density	wet	19.0	19.0 0	Stan 19.0 0	-	-	-
Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet Density	wet t/m³	19.0	19.0 0	Stan 19.0 0		-	-
Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet Density	wet t/m³ t/m³	19.0 0 2.12	19.0 0 2.14	Stan 19.0 0 2.08		- - -	- - -
Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet Density	wet t/m³ t/m³	19.0 0 2.12 - 21.5	19.0 0 2.14 - 19.0	Stan 19.0 0 2.08 - 22.5		- - -	- - -
Test procedure AS 1269.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet Density Optimum Moisture Content Moisture Variation From	wet t/m³ t/m³	19.0 0 2.12	19.0 0 2.14	Stan 19.0 0 2.08		- - -	- - -

Material description

Density Ratio (R_{HD})

No 146 - 1 Clay Fill



Approved Signatory : Justin Fry

95.0

95.0

%

99.0



 CIVIL GEOTECHNICAL SERVICES
 Job No
 17060

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 17060/R030

 Date Issued
 13/04/2017

ClientAUSTRALAND RESIDENTIAL NO 156 P/LTested byAGProjectHONOUR VILLAGE ESTATEDate tested04/03/17LocationBERWICKChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 10:02

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		149	150	151	152	153	154
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.90	1.84	1.94	1.83	1.91	1.89
Field moisture content	%	15.4	19.2	15.5	20.7	15.8	19.3

Test procedure AS 1289.5.7.1

Test No		149	150	151	152	153	154		
Compactive effort		Standard							
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0		
Percent of oversize material	wet	0	0	0	0	0	0		
Peak Converted Wet Density	t/m³	1.88	1.93	2.03	1.91	1.89	1.96		
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-		
Optimum Moisture Content	%	17.5	22.0	18.5	23.5	18.0	22.0		

Moisture Variation From	2.0%	2.5%	2.5%	2.5%	2.0%	2.5%
Optimum Moisture Content	dry	dry	dry	dry	dry	dry

Density Ratio (R _{HD}) %	101.0	95.5	95.5	96.0	101.0	96.0	
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Material description

No 149 - 1 Clay Fill



Approved Signatory: Justin Fry



 CIVIL GEOTECHNICAL SERVICES
 Job No
 17060

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 17060/R031

 Date Issued
 12/04/17

ClientAUSTRALAND RESIDENTIAL NO 156 P/LTested byJWMProjectHONOUR VILLAGE ESTATEDate tested06/03/17LocationBERWICKChecked byJHF

FeatureEARTHWORKSLayer thickness200 mmTime: 07:57

Test procedure	4.5	12892	1 .	1 &	581	1

Test No		155	156	157	158	159	160
Location		REFER TO FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.96	2.04	2.08	2.04	2.01	2.01
Field moisture content	%	25.0	20.0	17.8	23.1	22.1	18.6

Test procedure AS 1289.5.7.1

Test No		155	156	157	158	159	160
Compactive effort				Star	ıdard		
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m³	2.05	2.12	2.14	2.12	2.09	2.03
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	22.5	18.0	16.0	20.5	20.5	17.5

Moisture Variation From	2.5%	2.0%	2.0%	2.5%	1.5%	1.0%
Optimum Moisture Content	wet	wet	wet	wet	wet	wet

Density Ratio (R _{HD})	%	95.5	96.0	97.5	96.0	96.0	99.0

Material description

No 155 - 1 Clay Fill



Approved Signatory : Justin Fry



 CIVIL GEOTECHNICAL SERVICES
 Job No
 17060

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 17060/R032

 Date Issued
 19/04/17

ClientAUSTRLAND RESIDENTIAL NO 156 P/LTested byJWMProjectHONOUR VILLAGE ESTATEDate tested07/03/17LocationBERWICKChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 08:10

Test procedure	A.S	1289 2	1	12	58	1

Test No		161	162	163	164	165	166
Location		REFER TO FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.96	1.95	1.99	2.02	2.00	1.95
Field moisture content	%	24.4	22.0	23.5	23.5	20.7	22.5

Test procedure AS 1289.5.7.1

Test No		161	162	163	164	165	166
Compactive effort				Stan	dard		
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m³	2.03	2.03	2.07	2.11	2.06	2.05
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	22.0	21.0	21.5	21.0	18.0	21.5

Moisture Variation From	2.0%	1.0%	2.0%	2.5%	2.5%	1.0%
Optimum Moisture Content	wet	wet	wet	wet	wet	wet

Density Ratio (R _{HD})	%	97.0	96.0	96.5	96.0	97.0	95.0

Material description

No 161 - 1 Clay Fill



Approved Signatory: Justin Fry



 CIVIL GEOTECHNICAL SERVICES
 Job No
 17060

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 17060/R033

 Date Issued
 31/03/2017

ClientAUSTRALAND RESIDENTIAL NO 156 P/LTested byJWMProjectHONOUR VILLAGE ESTATEDate tested08/03/17LocationBERWICKChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 07:52

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		167	168	169	170	171	172
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	ТО	TO	TO	ТО
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.98	1.94	1.94	1.94	1.96	1.93
Field moisture content	%	24.6	27.3	27.1	27.5	23.8	24.5

Test procedure AS 1289.5.7.1

Test No		167	168	169	170	171	172
Compactive effort				Stan	ndard		
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m³	2.01	2.00	2.00	2.01	2.04	2.02
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	•
Optimum Moisture Content	%	23.5	25.5	25.0	26.5	21.0	24.0

Moisture Variation From	1.0%	2.0%	2.0%	1.0%	2.5%	0.5%
Optimum Moisture Content	wet	wet	wet	wet	wet	wet

Density Ratio (R _{HD}) %	99.0	96.5	97.5	97.0	96.0	95.5
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Material description

No 167 - 1 Clay Fill



Approved Signatory: Justin Fry



 CIVIL GEOTECHNICAL SERVICES
 Job No
 17060

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 17060/R034

 Date Issued
 21/04/17

ClientAUSTRALAND RESIDENTIAL NO 156 P/LTested byJWMProjectHONOUR VILLAGE ESTATEDate tested09/03/17LocationBERWICKChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 09:41

Test procedure	4.5	12892	1 .	1 &	581	1

Test No		173	174	175	176	177	178
Location		REFER TO FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.99	1.97	2.00	2.01	2.05	2.04
Field moisture content	%	22.5	23.6	24.6	25.0	19.1	19.7

Test procedure AS 1289.5.7.1

Test No		173	174	175	176	177	178
Compactive effort				Star	ıdard		
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m³	2.08	2.03	2.08	2.08	2.13	2.13
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	20.5	21.0	22.0	22.5	16.5	17.5

Moisture Variation From	2.0%	2.5%	2.0%	2.0%	2.5%	2.0%
Optimum Moisture Content	wet	wet	wet	wet	wet	wet

Density Ratio (R _{HD})	%	96.0	96.5	96.0	96.5	96.0	95.5

Material description

No 173 - 1 Clay Fill



Approved Signatory : Justin Fry



 CIVIL GEOTECHNICAL SERVICES
 Job No
 17060

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 17060/R035

 Date Issued
 03/04/17

ClientAUSTRALAND RESIDENTIAL NO 156 P/LTested byJWMProjectHONOUR VILLAGE ESTATEDate tested14/03/17LocationBERWICKChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 09:20

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		179	180	181	182	183	184
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		ТО	TO	TO	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.95	2.00	2.02	1.97	2.00	1.92
Field moisture content	%	19.6	21.2	20.5	24.0	19.9	25.7

Test procedure AS 1289.5.7.1

Test No		179	180	181	182	183	184	
Compactive effort		Standard						
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0	
Percent of oversize material	wet	0	0	0	0	0	0	
Peak Converted Wet Density	t/m³	2.06	2.07	2.06	2.03	2.09	2.02	
Adjusted Peak Converted Wet Density	t/m³	1	-	-	-	-	•	
Optimum Moisture Content	%	20.0	20.0	19.5	22.5	17.5	24.0	

Moisture Variation From	0.5%	1.0%	1.0%	1.5%	2.5%	1.5%
Optimum Moisture Content	dry	wet	wet	wet	wet	wet

Density Ratio (R _{HD}) %	95.0	96.5	98.0	97.5	96.0	95.0
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Material description

No 179 - 1 Clay Fill



Approved Signatory: Justin Fry



 CIVIL GEOTECHNICAL SERVICES
 Job No
 17060

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 17060/R036

 Date Issued
 12/04/2017

ClientAUSTRALAND RESIDENTIAL NO 156 P/LTested byJWMProjectHONOUR VILLAGE ESTATEDate tested15/03/17LocationBERWICKChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 10:27

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		185	186	187	188	189	190
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	ТО	TO	ТО	ТО
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.94	1.93	1.95	1.95	1.93	1.95
Field moisture content	%	29.7	28.3	26.1	26.8	27.0	25.2

Test procedure AS 1289.5.7.1

Tool No.		405	400	407	400	400	400
Test No		185	186	187	188	189	190
Compactive effort		Standard					
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m³	2.01	2.01	2.03	2.03	2.01	2.05
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	27.5	25.5	26.0	25.0	26.5	23.5

Moisture Variation From	2.0%	2.5%	0.0%	1.5%	0.5%	1.5%
Optimum Moisture Content	wet	wet		wet	wet	wet

Density Ratio (R _{HD}) %	96.5	96.0	96.0	96.0	96.0	95.0	
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Material description

No 185 - 1 Clay Fill



Approved Signatory: Justin Fry



 CIVIL GEOTECHNICAL SERVICES
 Job No
 17060

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 17060/R037

 Date Issued
 05/05/17

ClientAUSTRALAND RESIDENTIAL NO 156 P/LTested byJWMProjectHONOUR VILLAGE ESTATEDate tested16/03/17LocationBERWICKChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 09:28

Test procedure	4.5	12892	1 .	1 &	58	1

Test No		191	192	193	194	195	196
Location		REFER TO FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	2.03	2.03	2.00	2.00	2.02	2.02
Field moisture content	%	20.7	21.2	22.8	22.0	23.2	19.5

Test procedure AS 1289.5.7.1

Test No		191	192	193	194	195	196
Compactive effort		Standard					
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m³	2.07	2.09	2.09	2.08	2.12	2.13
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	19.0	18.5	20.0	21.0	21.5	19.5

Moisture Variation From	1.5%	2.5%	2.5%	1.0%	2.5%	0.0%
Optimum Moisture Content	wet	wet	wet	wet	wet	

Density Ratio (R _{HD})	%	98.5	97.0	95.5	96.5	95.0	95.0

Material description

No 191 - 1 Clay Fill



Approved Signatory : Justin Fry