CIVIL GEOTECHNICAL SERVICES
ABN 26 474 013 724
PO Box 678 Croydon Vic 3136
Telephone: 9723 0744 Facsimile: 9723 0799

6th August 2018

Our Reference: 18383:NB250

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
ASTON – STAGE 29 (CRAGIEBURN)

Please find attached our Report No's 18383/R001 and 18383/R002 which 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 was performed in June 2018.

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 inspection and testing was performed by experienced geotechnicians 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 reported allotments by Winslow Constructors during the aforementioned period. The approximate locations of the field density tests can be seen on the attached plan (Figure 1).

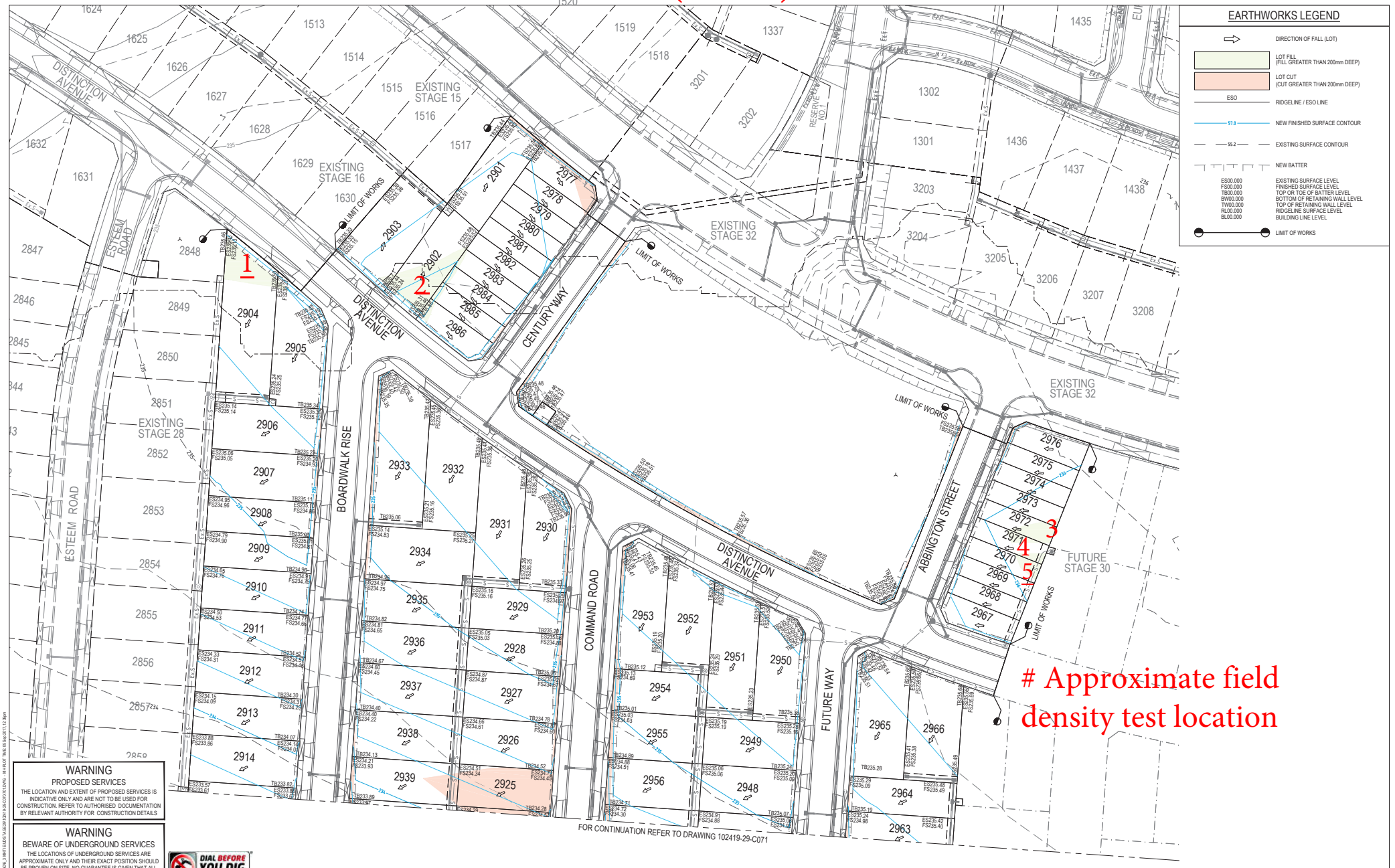
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Nick Brock

FIGURE 1 (1 of 2)



WARNING
PROPOSED SERVICES
THE LOCATION AND EXTENT OF PROPOSED SERVICES IS INDICATIVE ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION. REFER TO AUTHORISED DOCUMENTATION BY RELEVANT AUTHORITY FOR CONSTRUCTION DETAILS

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

DIAL BEFORE YOU DIG www.1100.com.au

REV	DESCRIPTION	BY	APP	DATE
00	CONSTRUCTION ISSUE	MG	CG	05.09.17

0 5 10 15 20 25m
SCALE 1:500 AT ORIGINAL SIZE

aston PEET craigieburn

Meinhardt Australia Pty Ltd
A.C.N. 052 275 635
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Melbourne VIC 3000
Australia
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F: +61 3 8676 1201
info@meinhardtgroup.com
http://www.meinhardtgroup.com
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CLIENT: PEET LTD
Level 4, 380 St Kilda Road, Melbourne VIC 3004

PROJECT: ASTON ESTATE STAGE 29
HUME CITY COUNCIL

TITLE: BULK EARTHWORKS PLAN SHEET 1 OF 2

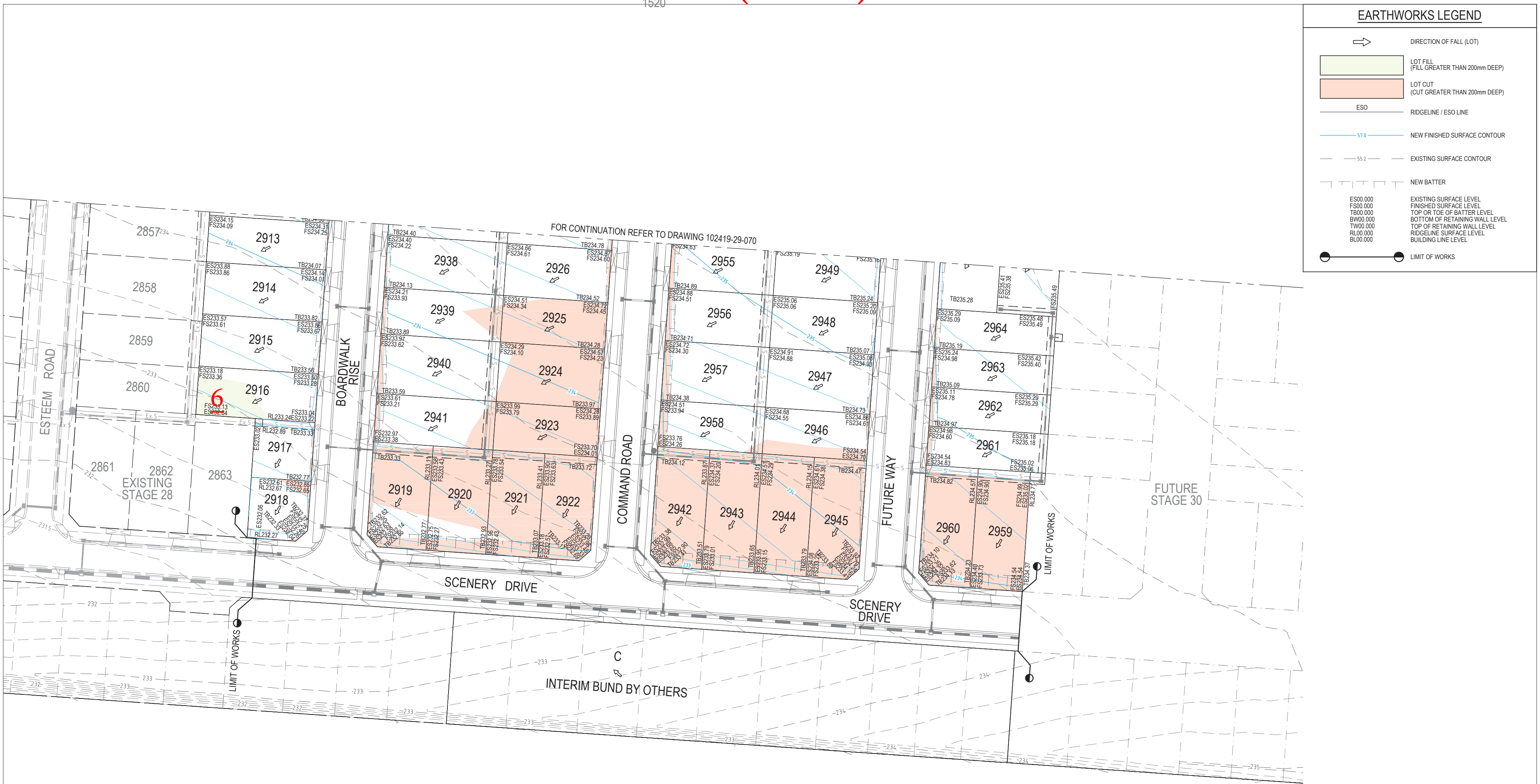
STATUS: FOR CONSTRUCTION

DESIGNED	DRAWN	APPROVED	SCALE @ A1	SHEET
LG	AJB	AC	SHOWN	4 OF 34

PROJECT No: 102419-29
DRAWING No: C070
REV: 00

PROJECT NORTH

FIGURE (2 of 2)


1520
EARTHWORKS LEGEND
DIRECTION OF FALL (LOT)
LOT FILL (FILL GREATER THAN 200mm DEEP)
LOT CUT (CUT GREATER THAN 200mm DEEP)
RIDGELINE / ESO LINE
NEW FINISHED SURFACE CONTOUR
EXISTING SURFACE CONTOUR
NEW BATTER
ES00.000 EXISTING SURFACE LEVEL
FS00.000 FINISHED SURFACE LEVEL
TB00.000 TOP OR TOE OF BATTER LEVEL
BW00.000 BOTTOM OF RETAINING WALL LEVEL
TW00.000 TOP OF RETAINING WALL LEVEL
RL00.000 RIDGELINE SURFACE LEVEL
BL00.000 BUILDING LINE LEVEL
LIMIT OF WORKS
FOR CONTINUATION REFER TO DRAWING 102419-29-070
ESTEEM ROAD
BOARDWALK RISE
COMMAND ROAD
FUTURE WAY
SCENERY DRIVE
EXISTING STAGE 28
FUTURE STAGE 30
INTERIM BUND BY OTHERS
LIMIT OF WORKS
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\# Approximate field density test location

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REV	DESCRIPTION	BY	APP	DATE
00	CONSTRUCTION ISSUE	MG	CD	05.09.17

0 5 10 15 20 25m
SCALE 1:500 AT ORIGINAL SIZE

aston craigieburn PEET

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CLIENT: PEET LTD
Level 4, 380 St Kilda Road, Melbourne VIC 3004

TITLE: BULK EARTHWORKS PLAN
SHEET 2 OF 2

PROJECT: ASTON ESTATE
STAGE 29
HUME CITY COUNCIL

STATUS: FOR CONSTRUCTION

DESIGNED	DRAWN	APPROVED	SCALE @ A1	SHEET
LG	AJB	AC	SHOWN	5 of 34

PROJECT No	DRAWING No	REV
102419-29	C071	00

COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

		Job No	18383
		Report No	18383/R001
		Date Issued	06/08/2018
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	*Tested by*	AC
Project	ASTON - STAGE 29	*Date tested*	27/06/18
Location	CRAGIEBURN	*Checked by*	JHF

Feature	**EARTHWORKS**	*Layer thickness*	200 mm	*Time:*	11:52

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		**1**	**2**	**3**	**4**	**5**	**6**
Location		REFER TO FIGURE 1	REFER TO FIGURE 1	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	175	175
Field wet density	*t/m³*	1.85	1.99	1.83	1.84	1.84	1.77
Field moisture content	*%*	19.2	21.7	19.4	20.1	19.1	19.6

Test procedure AS 1289.5.7.1

Test No		1	2	3	4	5	6
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*	1.91	2.00	1.91	1.90	1.90	1.80
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	17.0	19.0	19.5	20.5	19.5	17.5

Moisture Variation From Optimum Moisture Content		2.5% wet	2.5% wet	0.0%	0.0%	0.0%	2.5% wet
Density Ratio (R_{HD})	*%*	**97.0**	**99.5**	**96.0**	**97.0**	**97.0**	**98.0**

Material description

No 1 - 6 Clay Fill

Approved Signatory : Justin Fry

COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

		Job No	18383
		Report No	18383/R002
		Date Issued	06/08/2018
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	*Tested by*	AC
Project	ASTON - STAGE 29	*Date tested*	27/06/18
Location	CRAGIEBURN	*Checked by*	JHF

Feature	**EARTHWORKS**	*Layer thickness*	200 mm	*Time:*	12:19

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		**7**	**-**	**-**	**-**	**-**	**-**
Location		REFER TO FIGURE 1					
Approximate depth below FSL							
Measurement depth	*mm*	175	-	-	-	-	-
Field wet density	*t/m³*	1.79	-	-	-	-	-
Field moisture content	*%*	21.3	-	-	-	-	-

Test procedure AS 1289.5.7.1

Test No		7	-	-	-	-	-
Compactive effort		Standard					
Oversize rock retained on sieve	*mm*	19.0	-	-	-	-	-
Percent of oversize material	*wet*	0	-	-	-	-	-
Peak Converted Wet Density	*t/m³*	1.80	-	-	-	-	-
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	21.5	-	-	-	-	-

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

Density Ratio (R_{HD})	***%***	**99.5**	**-**	**-**	**-**	**-**	**-**

Material description

No 7 - 7 Clay Fill

Approved Signatory : Justin Fry