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

29th January 2015

Our Reference: 14308:JHF881

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
ASPECT ESTATE – STAGE 3, GREENVALE

Please find attached our Report Nos 14308/R001 to 14308/R002 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 was performed in late August 2014.

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 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 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).

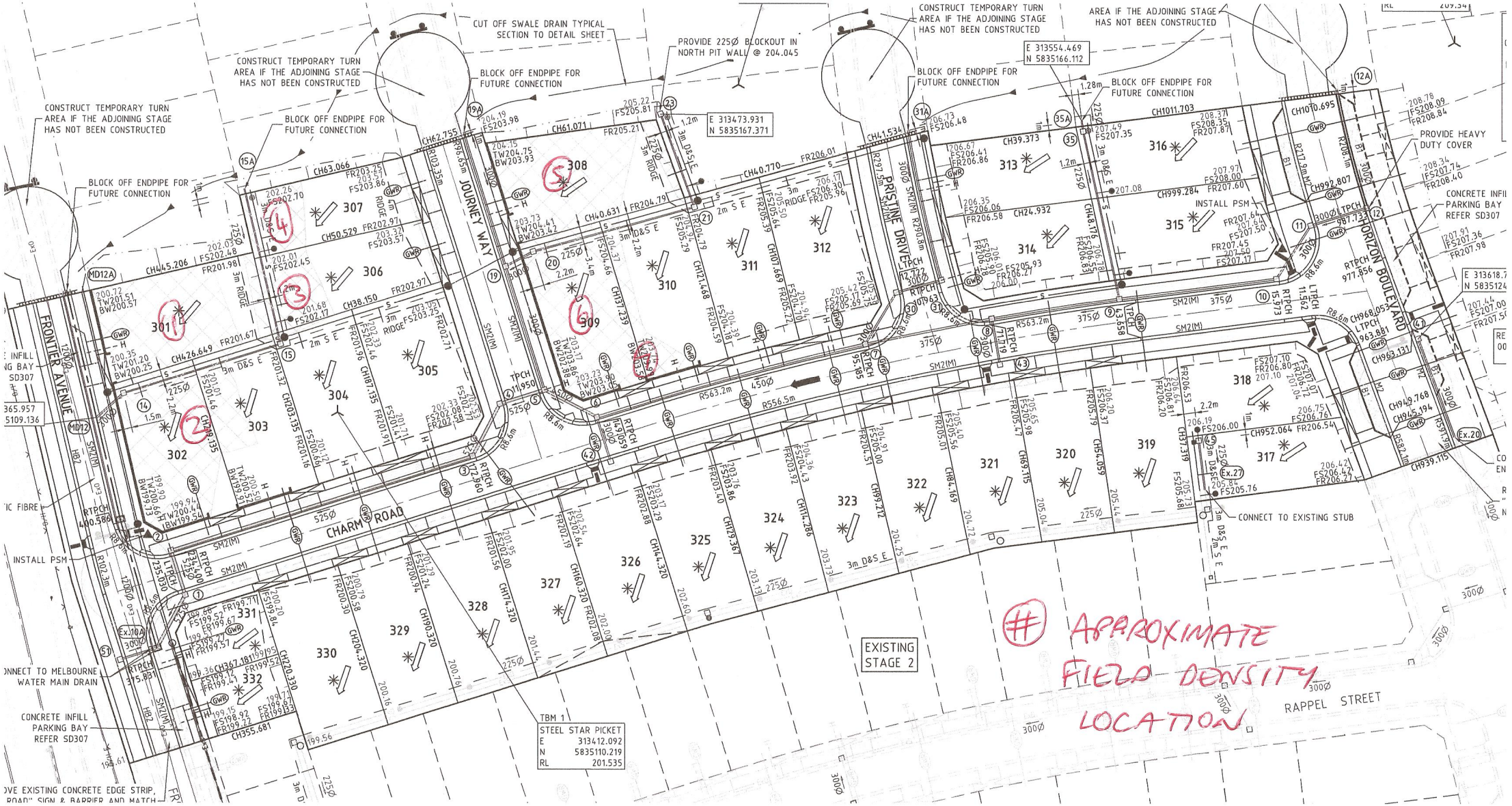
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Justin Fry

FIGURE 1


CONSTRUCT TEMPORARY TURN AREA IF THE ADJOINING STAGE HAS NOT BEEN CONSTRUCTED
BLOCK OFF ENDPIPE FOR FUTURE CONNECTION
CUT OFF SWALE DRAIN TYPICAL SECTION TO DETAIL SHEET
PROVIDE 225Ø BLOCKOUT IN NORTH PIT WALL @ 204.045
E 313473.931
N 5835167.371
E 313554.469
N 5835166.112
JOURNEY WAY
PRISTINE DRIVE
HORIZON BOULEVARD
FRONTIER AVENUE
CHARM ROAD
RAPPEL STREET
INSTALL PSM
CONCRETE INFILL PARKING BAY REFER SD307
PROVIDE HEAVY DUTY COVER
CONNECT TO EXISTING STUB
CONNECT TO MELBOURNE WATER MAIN DRAIN
EXISTING STAGE 2
TBM 1
STEEL STAR PICKET
E 313412.092
N 5835110.219
RL 201.535
APPROXIMATE FIELD DENSITY LOCATION

COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

		Job No	14308
		Report No	14308/R001
		Date Issued	14/10/14
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	*Tested by*	JWM
Project	ASPECT - STAGE 3	*Date tested*	28/08/14
Location	GREENVALE	*Checked by*	JHF

Feature **EARTHWORKS** *Layer thickness* 200 mm *Time:* 10:16

Test procedure AS 1289.2.1.1 & 5.8.1

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*	2.03	2.09	2.08	2.10	-	-
Field moisture content	*%*	18.9	16.5	19.3	16.6	-	-

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*	2.05	2.09	2.07	2.13	-	-
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	19.0	17.0	19.0	16.5	-	-

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

Density Ratio (R_{HD})	***%***	**99.5**	**100.0**	**101.0**	**99.0**	**-**	**-**

Material description

No 1 - 4 Clay Fill

AVRLOT HILF V1.10 MAR 13

NATA ACCREDITED FOR TECHNICAL COMPETENCE

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/National standards. Accredited for compliance to ISO/IEC 17025.
Accreditation No 9909

Approved Signatory : Justin Fry

COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

		Job No	14308
		Report No	14308/R002
		Date Issued	22/10/14
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	*Tested by*	JWM
Project	ASPECT - STAGE 3	*Date tested*	29/08/14
Location	GREENVALE	*Checked by*	JHF

Feature **EARTHWORKS** *Layer thickness* 200 mm *Time:* 08:43

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		**5**	**6**	**7**	**-**	**-**	**-**
Location		REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1			
Approximate depth below FSL							
Measurement depth	*mm*	175	175	175	-	-	-
Field wet density	*t/m³*	2.00	1.91	1.92	-	-	-
Field moisture content	*%*	20.0	21.5	21.5	-	-	-

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*	1.96	1.88	1.97	-	-	-
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	20.0	23.5	21.5	-	-	-

Moisture Variation From Optimum Moisture Content		0.0%	2.0% dry	0.0%	-	-	-

Density Ratio (R_{HD})	***%***	**102.0**	**101.5**	**97.5**	**-**	**-**	**-**

Material description

No 5 - 7 Clay Fill

Approved Signatory : Justin Fry