



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

17th April 2020

Our Reference: 20055:SB013

Mirvac Pty Ltd
Level 5, Building Q3, 6 Riverside Quay,
SOUTHBANK VIC 3006

Dear Sirs/Madams,

**RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
SMITHS LANE – STAGE 2, CLYDE NORTH**

Please find attached our Report No's 20055/R001 to 20055/R008 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 commenced in February 2020 and was completed in April 2020.

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).

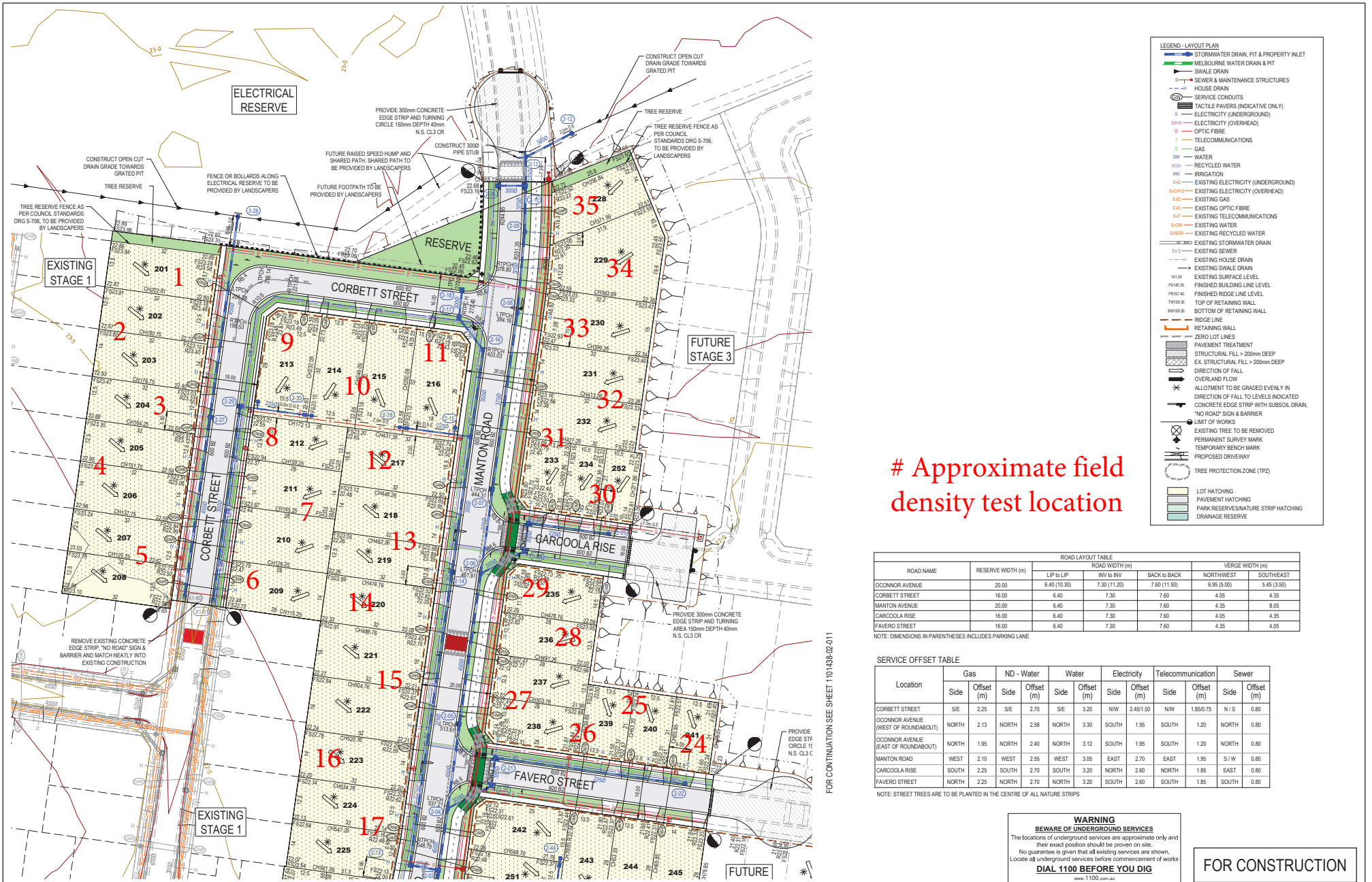
Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

A handwritten signature in blue ink, appearing to read 'Stephen Burns', is written over a light blue horizontal line.

Stephen Burns

FIGURE 1(1 of 2)



Approximate field density test location

FOR CONTINUATION SEE SHEET 1101438-02-01

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A	ISSUED FOR CONSTRUCTION	13.01.20 CD CB
P1	ISSUED FOR INFORMATION	19.06.19 CD CB



Designed by: C.DAWSON 14.06.2019
 Drawn by: L.SUTHERLAND
 Approved by: D.BELTON 19.08.2019
 P1 Number: PS830145T

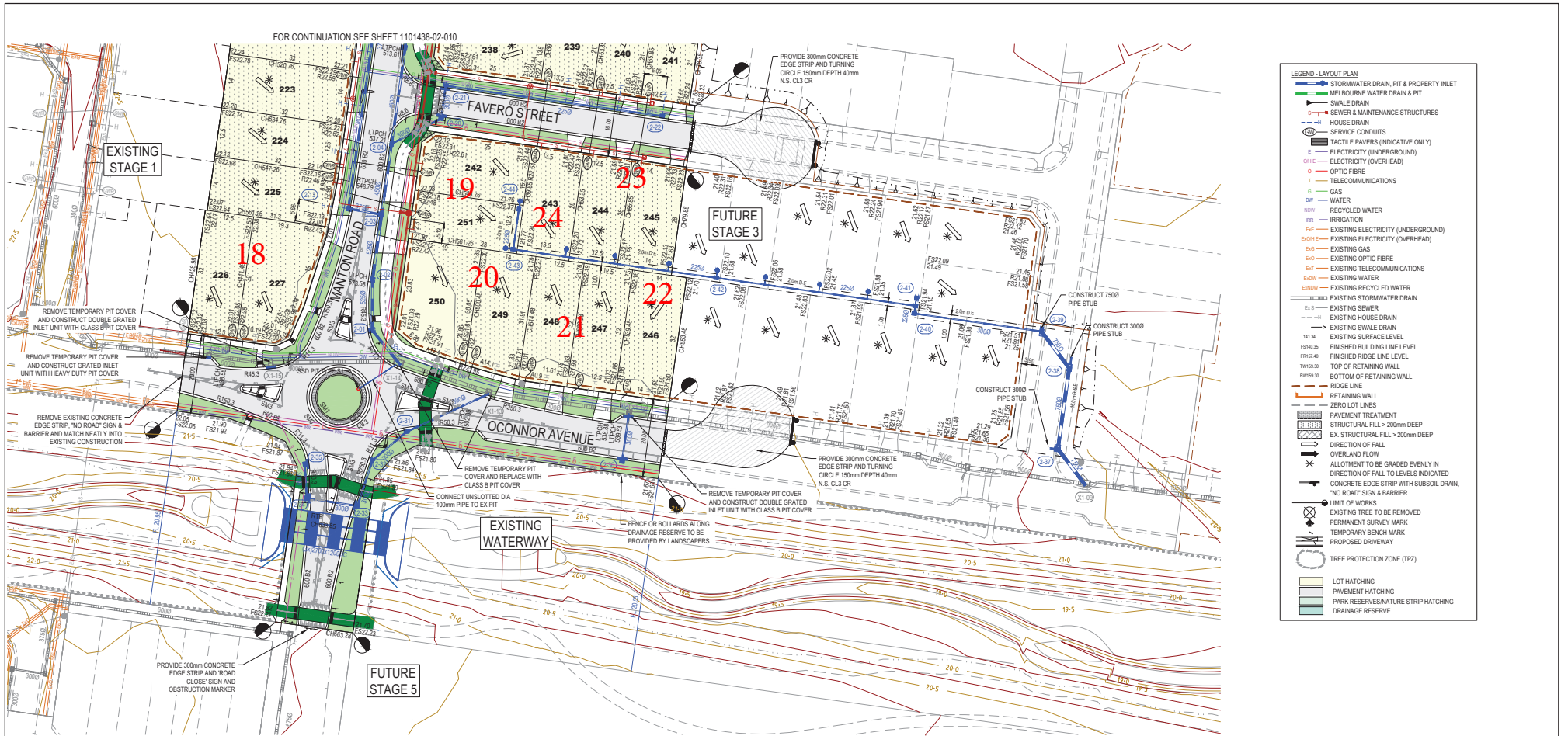
BW Beveridge Williams
 development & environment consultants
 1 Glenferrie Road
 Malvern VIC 3144
 ph: 03 9524 8888
 www.beveridgewilliams.com.au

Project Details
SMITHS LANE STAGE 02
 CITY OF CASEY
 Drawing Title
LAYOUT PLAN (SHEET 1 OF 2)

Sheet 04 of 28
 Scale
1:500 @ A1
 Project Ref: 1101438 02 010
 Stage No: 02
 Drawing No: 010
 Rev: A

K:\Jobs Data\1101438 11 Smiths Lane, Cycle (MTRVAC)_Eng\Stage 2\Drawings\1101438-02-01-04.dwg

FIGURE 1(2 of 2)



LEGEND - LAYOUT PLAN

- STORMWATER DRAIN, PIT & PROPERTY INLET
- MELBOURNE WATER DRAIN & PIT
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- HOUSE DRAIN
- SERVICE CONDUITS
- FACTILE PIPERS (INDICATIVE ONLY)
- ELECTRICITY (UNDERGROUND)
- ELECTRICITY (OVERHEAD)
- OPTIC FIBRE
- TELECOMMUNICATIONS
- GAS
- WATER
- RECYCLED WATER
- IRRIGATION
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER
- EXISTING RECYCLED WATER
- EXISTING STORMWATER DRAIN
- EXISTING SEWER
- EXISTING HOUSE DRAIN
- EXISTING SWALE DRAIN
- EXISTING SURFACE LEVEL
- FINISHED BUILDING LINE LEVEL
- FINISHED ROAD LINE LEVEL
- TOP OF RETAINING WALL
- BOTTOM OF RETAINING WALL
- RIDGE LINE
- RETAINING WALL
- ZERO LOT LINES
- PAVEMENT TREATMENT
- STRUCTURAL FILL > 200mm DEEP
- EX. STRUCTURAL FILL > 200mm DEEP
- DIRECTION OF FALL
- OVERLAND FLOW
- ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL TO LEVELS INDICATED
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREES TO BE REMOVED
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- PROPOSED DRIVEWAY
- TREE PROTECTION ZONE (TPZ)
- LOT HATCHING
- PAVEMENT HATCHING
- PARK RESERVE/NATURE STRIP HATCHING
- DRAINAGE RESERVE

Approximate field density test location

ROAD LAYOUT TABLE

ROAD NAME	RESERVE WIDTH (m)	ROAD WIDTH (m)				VERGE WIDTH (m)	
		LIP to LIP	INV to INV	BACK to BACK	NORTHWEST	SOUTHEAST	
OCONNOR AVENUE	20.00	6.40 (10.30)	7.30 (11.20)	7.60 (11.50)	6.95 (5.00)	5.45 (3.50)	
CORBETT STREET	16.00	6.40	7.30	7.60	4.05	4.35	
MANTON AVENUE	20.00	6.40	7.30	7.60	4.35	8.05	
CARCOOLA RISE	16.00	6.40	7.30	7.60	4.05	4.35	
FAVERO STREET	16.00	6.40	7.30	7.60	4.35	4.05	

NOTE: DIMENSIONS IN PARENTHESES INCLUDES PARKING LANE

SERVICE OFFSET TABLE

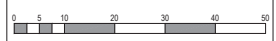
Location	Gas		ND - Water		Water		Electricity		Telecommunication		Sewer	
	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)
CORBETT STREET	SE	2.25	SE	2.70	SE	3.20	NW	2.45/1.50	NW	1.85/0.75	N/S	0.80
OCONNOR AVENUE (WEST OF ROUNDABOUT)	NORTH	2.13	NORTH	2.58	NORTH	3.30	SOUTH	1.95	SOUTH	1.20	NORTH	0.80
OCONNOR AVENUE (EAST OF ROUNDABOUT)	NORTH	1.95	NORTH	2.40	NORTH	3.12	SOUTH	1.95	SOUTH	1.20	NORTH	0.80
MANTON ROAD	WEST	2.10	WEST	2.55	WEST	3.05	EAST	2.70	EAST	1.95	S/W	0.80
CARCOOLA RISE	SOUTH	2.25	SOUTH	2.70	SOUTH	3.20	NORTH	2.60	NORTH	1.85	EAST	0.80
FAVERO STREET	NORTH	2.25	NORTH	2.70	NORTH	3.20	SOUTH	2.60	SOUTH	1.85	SOUTH	0.80

NOTE: STREET TREES ARE TO BE PLANTED IN THE CENTRE OF ALL NATURE STRIPS

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. Locate all underground services before commencement of works.
DIAL 1100 BEFORE YOU DIG
 www.1100.com.au

FOR CONSTRUCTION

ISSUED FOR CONSTRUCTION	13.01.20	CD	DB
ISSUED FOR INFORMATION	19.06.19	CD	DB



Designed by: C.DAWSON
 Date: 31.08.2019
 Drawn by: L.SUTHERLAND
 Approved by: D.BELTON
 Date: 19.08.2019
 PLS Number: PS830145T

BW Beveridge Williams
 development & environment consultants
 1 Glenferrie Road
 Malvern VIC 3144
 ph: 03 9524 8888
 www.beveridgewilliams.com.au

Project Details
SMITHS LANE
 STAGE 02
 CITY OF CASEY
 Drawing Title
LAYOUT PLAN
 (SHEET 2 OF 2)

Sheet 05 of 28
 Scale
1:500 @ A1
 Project Ref: 1101438
 Stage No: 02
 Drawing No: 011
 Rev: A

\\cbsa\Draw\101438\110 Smiths Lane_City of Casey (MIRVAC)_Eng\Stage 2\Drawings\101438-02-015.dwg



COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Job No 20055
 Report No 20055/R001
 Date Issued 13/02/2020

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	SB
Project	SMITHS LANE - STAGE 2	Date tested	05/02/20
Location	CLYDE NORTH	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 08:00
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	1	2	3	-	-	-
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	1.94	1.96	1.95	-	-	-
Field moisture content %	19.4	18.0	23.0	-	-	-

Test procedure AS 1289.5.7.1

Test No	1	2	3	-	-	-
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	1.98	2.00	-	-	-
Adjusted Peak Converted Wet Density t/m³	-	-	-	-	-	-
Optimum Moisture Content %	20.0	19.5	22.0	-	-	-

Moisture Variation From Optimum Moisture Content	0.5% dry	1.5% dry	1.0% wet	-	-	-
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Density Ratio (R_{HD})	%	96.0	99.0	97.5	-	-	-
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Material description

No 1 - 3 Clay Fill

AVRLOT HILF V1.10 MAR 13



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Accreditation No 9909

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Job No 20055
Report No 20055/R002
Date Issued 08/04/2020

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	SB
Project	SMITHS LANE - STAGE 2	Date tested	06/02/20
Location	CLYDE NORTH	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time:	08:00
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No		4	5	6	7	8	9
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/m ³	2.06	2.03	1.95	2.00	2.02	2.00
Field moisture content	%	16.7	16.3	14.5	17.0	18.6	17.9

Test procedure AS 1289.5.7.1

Test No		4	5	6	7	8	9
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/m ³	2.08	2.05	1.98	1.99	2.02	2.00
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-	-
Optimum Moisture Content	%	15.5	16.5	17.0	19.5	21.0	20.5

Moisture Variation From Optimum Moisture Content	1.0% wet	0.5% dry	2.5% dry	2.5% dry	2.5% dry	2.5% dry
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Density Ratio (R _{HD})	%	99.0	99.5	98.5	100.5	100.0	100.5
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Material description

No 4 - 9 Clay Fill

AVRLOT HILF V1.10 MAR 13



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COMPACTION ASSESSMENT

Job No 20055
 Report No 20055/R003
 Date Issued 08/04/2020

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	SB
Project	SMITHS LANE - STAGE 2	Date tested	10/02/20
Location	CLYDE NORTH	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 08:00
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	10	11	12	-	-	-
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/m ³	2.02	2.01	1.96	-	-
Field moisture content	%	13.2	14.0	15.0	-	-

Test procedure AS 1289.5.7.1

Test No	10	11	12	-	-	-
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/m ³	2.04	2.06	1.96	-	-
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	15.5	16.5	13.5	-	-

Moisture Variation From Optimum Moisture Content	2.0% dry	2.0% dry	1.5% wet	-	-	-
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Density Ratio (R _{HD})	%	99.0	97.5	100.5	-	-
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Material description

No 10 - 12 Clay Fill

AVRLOT HILF V1.10 MAR 13



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Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Job No 20055
 Report No 20055/R004
 Date Issued 16/04/2020

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	SB
Project	SMITHS LANE - STAGE 2	Date tested	14/02/20
Location	CLYDE NORTH	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 12:00
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	13	14	15	16	17	18
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	2.06	2.08	2.05	2.04	2.10	2.04
Field moisture content %	17.4	17.1	17.5	19.2	17.3	19.8

Test procedure AS 1289.5.7.1

Test No	13	14	15	16	17	18
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	2.10	2.10	2.08	2.08	2.12	2.11
Adjusted Peak Converted Wet Density t/m³	-	-	-	-	-	-
Optimum Moisture Content %	15.0	14.5	15.0	17.0	15.0	17.0

Moisture Variation From Optimum Moisture Content	2.0% wet	2.5% wet	2.5% wet	2.0% wet	2.5% wet	2.5% wet
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Density Ratio (R_{HD})	%	98.0	99.0	98.5	98.0	99.5	97.0
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Material description

No 13 - 18 Clay Fill

AVRLOT HILF V1.10 MAR 13



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Accreditation No 9909

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

Job No 20055
 Report No 20055/R005
 Date Issued 04/04/2020

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	SB
Project	SMITHS LANE - STAGE 2	Date tested	24/02/20
Location	CLYDE NORTH	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time:	08:30
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	19	20	21	-	-	-
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/m ³	1.96	2.00	1.99	-	-
Field moisture content	%	13.2	14.0	17.2	-	-

Test procedure AS 1289.5.7.1

Test No	19	20	21	-	-	-
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/m ³	2.00	2.06	2.02	-	-
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	15.0	14.0	17.5	-	-

Moisture Variation From Optimum Moisture Content	2.0% dry	0.0%	0.5% dry	-	-	-
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Density Ratio (R _{HD})	%	98.0	97.5	98.5	-	-
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Material description

No 19 - 21 Clay Fill

AVRLOT HILF V1.10 MAR 13



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Accreditation No 9909

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

Job No 20055
 Report No 20055/R006
 Date Issued 16/04/2020

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	SB
Project	SMITHS LANE - STAGE 2	Date tested	27/02/20
Location	CLYDE NORTH	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 12:00
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	22	23	24	25	26	27
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
Field wet density	t/m ³	1.94	1.93	2.01	2.04	2.03
Field moisture content	%	19.0	18.7	20.8	18.3	18.0

Test procedure AS 1289.5.7.1

Test No	22	23	24	25	26	27
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/m ³	1.96	1.96	2.05	2.08	2.05
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	16.5	16.5	18.5	16.5	17.5

Moisture Variation From Optimum Moisture Content	2.5% wet	2.5% wet	2.5% wet	2.0% wet	2.0% wet	0.0%
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Density Ratio (R _{HD})	%	99.0	98.5	98.0	98.0	99.0	99.5
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Material description

No 22 - 27 Clay Fill

AVRLOT HILF V1.10 MAR 13



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Accreditation No 9909

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Job No 20055
Report No 20055/R007
Date Issued 04/04/2020

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	SB
Project	SMITHS LANE - STAGE 2	Date tested	28/02/20
Location	CLYDE NORTH	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 11:30
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	28	29	-	-	-	-
Location	REFER TO FIGURE 1	REFER TO FIGURE 1				
Approximate depth below FSL						
Measurement depth	mm	175	175	-	-	-
Field wet density	t/m ³	1.98	1.98	-	-	-
Field moisture content	%	22.4	18.2	-	-	-

Test procedure AS 1289.5.7.1

Test No	28	29	-	-	-	-
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/m ³	2.02	2.06	-	-	-
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	24.5	18.0	-	-	-

Moisture Variation From Optimum Moisture Content	2.0% dry	0.0%	-	-	-	-
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Density Ratio (R _{HD})	%	98.0	96.0	-	-	-
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Material description

No 28 - 29 Clay Fill

AVRLOT HILF V1.10 MAR 13



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

Accreditation No 9909

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Job No 20055
Report No 20055/R008
Date Issued 17/04/2020

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	SB
Project	SMITHS LANE - STAGE 2	Date tested	15/04/20
Location	CLYDE NORTH	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 13:00
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	30	31	32	33	34	35
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
Field wet density	t/m ³	2.10	2.07	2.10	2.07	2.08
Field moisture content	%	15.7	15.5	16.2	16.6	17.6

Test procedure AS 1289.5.7.1

Test No	30	31	32	33	34	35
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/m ³	2.10	2.08	2.08	2.14	2.09
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	13.0	13.5	14.0	14.5	15.0

Moisture Variation From Optimum Moisture Content	2.5% wet	2.0% wet	2.0% wet	2.0% wet	2.0% wet	2.0% wet
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Density Ratio (R _{HD})	%	100.0	100.0	101.0	96.5	99.5	99.5
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Material description

No 30 - 35 Clay Fill

AVRLOT HILF V1.10 MAR 13



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Accreditation No 9909

Approved Signatory : Justin Fry