



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

20th April 2020

Our Reference: 20109:SB014

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 3, CLYDE NORTH**

Please find attached our Report No's 20109/R001 to 20109/R011 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 February 2020 and was completed in March 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



Approximate field density test location

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P5	DRAFTING AMENDMENTS	13.02.19	CD	DB
P4	LOT 348 CROSS/OVER SHIFTED	10.12.19	CD	DB
P3	DRAINAGE & DRAFTING AMENDMENTS	18.07.19	CD	DB
P2	DRAINAGE PIT 3-BH ADDED	16.07.19	CD	CD
P1	ISSUED FOR INFORMATION	16.07.19	CD	DB



Designed	C.DAWSON	30.07.2019
Drawn	L.SUTHERLAND	
Approved	D.BELTON	
PI Number	PS830146R	

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

Project Details
SMITHS LANE STAGE 03 CITY OF CASEY
Drawing Title
LAYOUT PLAN

Sheet 04 of 20
Scale
1:500 @ A1
Project Ref
1101438
Stage No
03
Drawing No
010
Rev
P5

K:\Data\101438\110 Smiths Lane_City of Casey\1101438_03\DWG\101438-03-010.dwg



COMPACTION ASSESSMENT

Job No 20109
 Report No 20109/R001
 Date Issued 02/04/2020

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	SB
Project	SMITHS LANE - STAGE 3	Date tested	28/02/20
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	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 <i>mm</i>	175	175	175	175	-	-
Field wet density <i>t/m³</i>	2.05	1.86	1.97	2.00	-	-
Field moisture content <i>%</i>	17.7	20.0	21.3	18.5	-	-

Test procedure AS 1289.5.7.1

Test No	1	2	3	4	-	-
Compactive effort	Standard					
Oversize rock retained on sieve <i>mm</i>	19.0	19.0	19.0	19.0	-	-
Percent of oversize material <i>wet</i>	0	0	0	0	-	-
Peak Converted Wet Density <i>t/m³</i>	2.08	1.85	2.00	2.01	-	-
Adjusted Peak Converted Wet Density <i>t/m³</i>	-	-	-	-	-	-
Optimum Moisture Content <i>%</i>	15.0	23.0	19.5	16.5	-	-

Moisture Variation From Optimum Moisture Content	2.5% wet	2.5% dry	1.5% wet	2.0% wet	-	-
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Density Ratio (R_{HD})	%	99.0	100.0	98.5	99.5	-	-
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Material description

No 1 - 4 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 20109
Report No 20109/R002
Date Issued 04/04/2020

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	SB
Project	SMITHS LANE - STAGE 3	Date tested	02/03/20
Location	CLYDE NORTH	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 11:00
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	5	6	7	8	9	10	
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	2.00	1.96	1.98	1.97	1.94	1.96
Field moisture content	%	20.3	19.4	19.7	20.1	22.0	19.8

Test procedure AS 1289.5.7.1

Test No	5	6	7	8	9	10	
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	2.01	1.98	2.01	2.00	1.98	2.00
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-	-
Optimum Moisture Content	%	23.0	22.0	21.5	22.0	24.5	22.5

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

No 5 - 10 Clay Fill

AVRLOT HILF V1.10 MAR 13



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COMPACTION ASSESSMENT

Job No 20109
 Report No 20109/R003
 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 3	Date tested	03/03/20
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	11	12	13	14	15	16
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	1.92	1.98	1.96	2.00	1.99
Field moisture content	%	20.3	19.6	19.0	16.4	19.8

Test procedure AS 1289.5.7.1

Test No	11	12	13	14	15	16
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	1.95	2.00	2.00	2.03	2.04
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	23.0	22.0	21.5	19.0	22.0

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

No 11 - 16 Clay Fill

AVRLOT HILF V1.10 MAR 13



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COMPACTION ASSESSMENT

Job No 20109
 Report No 20109/R004
 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 3	Date tested	04/03/20
Location	CLYDE NORTH	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 12:30
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	17	18	19	20	21	22
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	2.05	1.99	1.97	1.97	1.99
Field moisture content	%	13.4	14.7	18.2	19.0	18.1

Test procedure AS 1289.5.7.1

Test No	17	18	19	20	21	22
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	2.04	2.02	2.00	2.01	2.00
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	15.5	17.0	17.5	18.5	20.0

Moisture Variation From Optimum Moisture Content	2.0% dry	2.0% dry	1.0% wet	0.5% wet	2.0% dry	2.0% dry
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Density Ratio (R _{HD})	%	100.5	98.5	98.5	98.0	99.5	99.5
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Material description

No 17 - 22 Clay Fill

AVRLOT HILF V1.10 MAR 13



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COMPACTION ASSESSMENT

Job No 20109
 Report No 20109/R005
 Date Issued 27/03/2020

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	SB
Project	SMITHS LANE - STAGE 3	Date tested	10/03/20
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	23	24	25	26	27	28	
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	1.89	2.01	2.02	2.03	2.04	2.01
Field moisture content	%	14.4	18.7	15.6	16.3	16.2	14.5

Test procedure AS 1289.5.7.1

Test No	23	24	25	26	27	28	
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	1.95	2.02	2.04	2.03	2.06	2.02
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-	-
Optimum Moisture Content	%	14.5	19.5	16.5	17.5	17.0	17.0

Moisture Variation From Optimum Moisture Content	0.0%	0.0%	1.0% dry	1.0% dry	0.5% dry	2.5% dry
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Density Ratio (R _{HD})	%	97.0	99.5	99.0	100.0	99.0	99.5
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Material description

No 23 - 28 Clay Fill

AVRLOT HILF V1.10 MAR 13



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COMPACTION ASSESSMENT

Job No 20109
 Report No 20109/R006
 Date Issued 01/04/2020

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	SB
Project	SMITHS LANE - STAGE 3	Date tested	11/03/20
Location	CLYDE NORTH	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time:	09:00
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	29	30	31	32	33	34
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	1.99	2.00	2.00	2.07	2.04
Field moisture content	%	15.3	14.7	12.2	23.1	19.3

Test procedure AS 1289.5.7.1

Test No	29	30	31	32	33	34
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	1.97	2.01	2.02	2.06	2.05
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	17.5	16.5	14.5	21.0	19.0

Moisture Variation From Optimum Moisture Content	2.0% dry	2.0% dry	2.5% dry	2.0% wet	0.0%	2.5% wet
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Density Ratio (R _{HD})	%	101.0	99.5	99.0	100.5	99.5	98.0
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Material description

No 29 - 34 Clay Fill

AVRLOT HILF V1.10 MAR 13



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Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

Job No 20109
 Report No 20109/R007
 Date Issued 27/03/2020

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	SB
Project	SMITHS LANE - STAGE 3	Date tested	12/03/20
Location	CLYDE NORTH	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 12:30
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	35	36	37	38	39	40
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	2.05	2.05	2.04	2.06	2.00
Field moisture content	%	14.9	11.6	14.8	13.2	16.4

Test procedure AS 1289.5.7.1

Test No	35	36	37	38	39	40
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	2.11	2.12	2.12	2.07	2.09
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	15.5	12.0	15.0	14.0	16.5

Moisture Variation From Optimum Moisture Content	0.5% dry	0.5% dry	0.0%	1.0% dry	0.0%	0.0%
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Density Ratio (R _{HD})	%	97.0	97.0	96.0	99.5	95.5	97.5
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Material description

No 35 - 40 Clay Fill

AVRLOT HILF V1.10 MAR 13



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Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

Job No 20109
 Report No 20109/R008
 Date Issued 03/04/2020

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	SB
Project	SMITHS LANE - STAGE 3	Date tested	12/03/20
Location	CLYDE NORTH	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 13:30
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	41	42	43	-	-	-
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	2.00	2.02	2.02	-	-
Field moisture content	%	12.0	14.1	17.1	-	-

Test procedure AS 1289.5.7.1

Test No	41	42	43	-	-	-
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	1.99	2.01	-	-
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	10.5	12.5	16.5	-	-

Moisture Variation From Optimum Moisture Content	2.0% wet	2.0% wet	0.5% wet	-	-	-
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Density Ratio (R _{HD})	%	99.5	101.0	100.5	-	-
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Material description

No 41 - 43 Clay Fill

AVRLOT HILF V1.10 MAR 13



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COMPACTION ASSESSMENT

Job No 20109
 Report No 20109/R009
 Date Issued 20/04/2020

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	SB
Project	SMITHS LANE - STAGE 3	Date tested	13/03/20
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	44	45	46	47	48	49
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	1.92	1.93	1.95	2.01	1.97
Field moisture content	%	14.0	14.8	15.3	17.0	16.5

Test procedure AS 1289.5.7.1

Test No	44	45	46	47	48	49
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	1.93	1.94	1.98	2.01	1.99
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	16.5	17.5	17.0	17.5	17.5

Moisture Variation From Optimum Moisture Content	2.5% dry	2.5% dry	1.5% dry	0.5% dry	0.5% dry	1.0% dry
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Density Ratio (R _{HD})	%	100.0	99.5	98.5	100.0	100.0	99.0
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Material description

No 44 - 49 Clay Fill

AVRLOT HILF V1.10 MAR 13



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Accreditation No 9909

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

Job No 20109
 Report No 20109/R011
 Date Issued 03/04/2020

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	SB
Project	SMITHS LANE - STAGE 3	Date tested	16/03/20
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	56	57	-	-	-	-
Location	REFER TO FIGURE 1	REFER TO FIGURE 1				
Approximate depth below FSL						
Measurement depth	mm	175	175	-	-	-
Field wet density	t/m ³	2.01	1.99	-	-	-
Field moisture content	%	16.0	15.9	-	-	-

Test procedure AS 1289.5.7.1

Test No	56	57	-	-	-	-
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	2.01	2.00	-	-	-
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	18.0	18.5	-	-	-

Moisture Variation From Optimum Moisture Content	2.0% dry	2.5% dry	-	-	-	-
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Density Ratio (R _{HD})	%	100.0	100.0	-	-	-
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Material description

No 56 - 57 Clay Fill

AVRLOT HILF V1.10 MAR 13



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