



## COMPACTION ASSESSMENT

### CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 19333  
Report No 19333/R001  
Date Issued 22/05/2019

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JB
Project	ALBRIGHT ESTATE - STAGE 7	Date tested	22/05/19
Location	TARNEIT	Checked by	JHF

Feature	CAPPING	Layer thickness	150 mm	Time:	12:30:09
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AS 12892.1.1 & 5.8.1

Test No	1	2	3	4	5	6
Location	Trafford Drive		Axle Drive			
Chainage	670	720	770	820	870	920
Offset	1.4	2	1.8	1.5	2.2	1.8
	north of kerb	south of kerb	west of kerb	east of kerb	west of kerb	north of kerb
Approximate depth from F.S.L.	m					
Measurement depth	mm	125	125	125	125	125
Field wet density	t/m <sup>3</sup>	2.23	2.23	2.24	2.23	2.27
Field dry density	t/m <sup>3</sup>	1.99	1.97	1.96	1.97	1.98
Field moisture content	%	11.5	12.0	13.0	12.5	13.0

Laboratory Compaction AS 1289.5.1.1 & 5.4.2 Assigned Values (See Report No 40SMWVCC)

Date of assignment	21/03/2019
Material source and location	40mm Capping - MVQ, Wyndham Vale
Compactive effort	STANDARD
Maximum Dry Density	t/m <sup>3</sup> 1.97
Optimum Moisture Content	% 14.0

Test procedure AS 1289.5.4.1

Oversize rock retained on sieve	mm	37.5	37.5	37.5	37.5	37.5	37.5
Percent of oversize material	wet	-	-	-	-	-	-
Percent of oversize material	dry	-	-	-	-	-	-
Adjusted Maximum Dry Density	t/m <sup>3</sup>	-	-	-	-	-	-
Adjusted Optimum Moisture Content	%	-	-	-	-	-	-

Moisture Variation From Optimum Moisture Content	1.5% dry	0.5% dry	0.5% wet	0.0% dry	0.5% wet	1.0% wet
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Moisture Ratio (R <sub>m</sub> )	%	91.0	97.0	105.0	98.5	105.5	108.0
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Density Ratio (R <sub>D</sub> )	%	101.0	100.0	99.5	100.0	101.0	100.0
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## COMPACTION ASSESSMENT

### CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 19333  
Report No 19333/R003  
Date Issued 22/05/2019

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JB
Project	ALBRIGHT ESTATE - STAGE 7	Date tested	22/05/19
Location	TARNEIT	Checked by	JHF

Feature	CAPPING	Layer thickness	150 mm	Time:	13:50:25
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AS 12892.1.1 & 5.8.1

Test No	19	20				
Location	Ludo Circuit					
Chainage	400	450				
Offset	1.5	2.8				
	east	west				
	of kerb	of kerb				
Approximate depth from F.S.L.	m					
Measurement depth	mm	125	125			
Field wet density	t/m <sup>3</sup>	2.23	2.27			
Field dry density	t/m <sup>3</sup>	1.98	2.00			
Field moisture content	%	12.0	12.0			

Laboratory Compaction AS 1289.5.1.1 & 5.4.2 Assigned Values (See Report No 40SMWVCC)

Date of assignment	21/03/2019
Material source and location	40mm Capping - MVQ, Wyndham Vale
Compactive effort	STANDARD
Maximum Dry Density	t/m <sup>3</sup> 1.97
Optimum Moisture Content	% 14.0

Test procedure AS 1289.5.4.1

Oversize rock retained on sieve	mm	37.5	37.5				
Percent of oversize material	wet	-	-				
Percent of oversize material	dry	-	-				
Adjusted Maximum Dry Density	t/m <sup>3</sup>	-	-				
Adjusted Optimum Moisture Content	%	-	-				

Moisture Variation From Optimum Moisture Content	1.0% dry	0.5% dry				
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Moisture Ratio (R <sub>m</sub> )	%	94.0	97.0				
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Density Ratio (R <sub>D</sub> )	%	100.5	101.5				
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## COMPACTION ASSESSMENT

### CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 19333  
Report No 19333/R004  
Date Issued 22/05/2019  
Tested by JB  
Date tested 22/05/19  
Checked by JHF

Client WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)  
Project ALBRIGHT ESTATE - STAGE 7  
Location TARNEIT

Feature DRAINAGE Layer thickness 200 mm Time: 14:15:26

AS 12892.1.1 & 5.8.1

Test No	15	16	17	18	19	20
Location						
Pit	1 - 9	9 - 21	11 - 12	13 - 22	14 - 36	5 - 6
Approximate depth from F.S.L. m						
Measurement depth mm	175	175	175	175	175	175
Field wet density t/m <sup>3</sup>	2.41	2.40	2.42	2.41	2.42	2.41
Field dry density t/m <sup>3</sup>	2.28	2.28	2.30	2.28	2.30	2.28
Field moisture content %	6.0	5.5	5.5	5.5	5.5	5.5

Laboratory Compaction AS 1289.5.2.1 & 5.4.2 Assigned Values (See Report No 203MWVHW)

Date of assignment	09/05/2019
Material source and location	20mm Class 3 - MVQ, Wyndham Vale
Compactive effort	MODIFIED
Maximum Dry Density t/m <sup>3</sup>	2.32
Optimum Moisture Content %	7.5

Test procedure AS 1289.5.4.1

Oversize rock retained on sieve mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material wet	-	-	-	-	-	-
Percent of oversize material dry	-	-	-	-	-	-
Adjusted Maximum Dry Density t/m <sup>3</sup>	-	-	-	-	-	-
Adjusted Optimum Moisture Content %	-	-	-	-	-	-

Moisture Variation From Optimum Moisture Content	1.5% dry	2.0% dry	2.0% dry	2.0% dry	2.0% dry	2.0% dry
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Moisture Ratio (R <sub>m</sub> )	%	77.5	72.0	70.0	74.5	72.5	76.0
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Density Ratio (R <sub>D</sub> )	%	98.5	98.5	99.5	98.5	99.5	98.5
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## COMPACTION ASSESSMENT

### CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 19333  
Report No 19333/R005  
Date Issued 22/05/2019  
Tested by JB  
Date tested 22/05/19  
Checked by JHF

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)
Project	ALBRIGHT ESTATE - STAGE 7
Location	TARNEIT

Feature	DRAINAGE	Layer thickness	200 mm	Time:	14:59:11
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AS 12892.1.1 & 5.8.1

Test No	21	22	23			
Location						
Pit	3 - 2	27 - 35	28 - 29			
Approximate depth from F.S.L.	m					
Measurement depth	mm	175	175	175		
Field wet density	t/m <sup>3</sup>	2.38	2.40	2.41		
Field dry density	t/m <sup>3</sup>	2.28	2.27	2.29		
Field moisture content	%	5.0	5.5	5.5		

Laboratory Compaction AS 1289.5.2.1 & 5.4.2 Assigned Values (See Report No 203MWVHW)

Date of assignment	09/05/2019
Material source and location	20mm Class 3 - MVQ, Wyndham Vale
Compactive effort	MODIFIED
Maximum Dry Density	t/m <sup>3</sup> 2.32
Optimum Moisture Content	% 7.5

Test procedure AS 1289.5.4.1

Oversize rock retained on sieve	mm	19.0	19.0	19.0			
Percent of oversize material	wet	-	-	-			
Percent of oversize material	dry	-	-	-			
Adjusted Maximum Dry Density	t/m <sup>3</sup>	-	-	-			
Adjusted Optimum Moisture Content	%	-	-	-			

Moisture Variation From Optimum Moisture Content	2.5% dry	2.0% dry	2.0% dry			
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Moisture Ratio (R <sub>m</sub> )	%	64.0	72.0	70.0			
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Density Ratio (R <sub>D</sub> )	%	98.0	98.0	99.0			
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## COMPACTION ASSESSMENT

### CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 19333  
Report No 19333/R006  
Date Issued 05/07/2019

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JB
Project	ALBRIGHT ESTATE - STAGE 7B	Date tested	05/07/19
Location	TRUGANINA	Checked by	JHF

Feature	CLASS 3	Layer thickness	160 mm	Time:	10:00:00
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AS 12892.1.1 & 5.8.1

Test No	24	25	26	27	28	29
Location	Ludo Circuit					Axle Drive
Chainage	250	300	350	400	450	770
Offset	1.5	2.1	1.4	1.2	1.8	2.7
	east of kerb	south of kerb	west of kerb	east of kerb	west of kerb	west of kerb
Approximate depth from F.S.L.	m					
Measurement depth	mm	150	150	150	150	150
Field wet density	t/m <sup>3</sup>	2.39	2.44	2.48	2.47	2.44
Field dry density	t/m <sup>3</sup>	2.30	2.30	2.30	2.30	2.30
Field moisture content	%	4.0	6.0	8.0	7.0	6.0

Laboratory Compaction AS 1289.5.2.1 & 5.4.2 Assigned Values (See Report No 203MWVHY)

Date of assignment	04/07/2019
Material source and location	20mm Class 3 - MVQ, Wyndham Vale
Compactive effort	MODIFIED
Maximum Dry Density	t/m <sup>3</sup> 2.34
Optimum Moisture Content	% 7.5

Test procedure AS 1289.5.4.1

Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	-	-	-	-	-	-
Percent of oversize material	dry	-	-	-	-	-	-
Adjusted Maximum Dry Density	t/m <sup>3</sup>	-	-	-	-	-	-
Adjusted Optimum Moisture Content	%	-	-	-	-	-	-

Moisture Variation From Optimum Moisture Content	3.5% dry	1.5% dry	0.5% wet	0.0% dry	0.0% dry	1.5% dry
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Moisture Ratio (R <sub>m</sub> )	%	52.0	81.5	109.0	97.5	99.0	83.0
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Density Ratio (R <sub>D</sub> )	%	98.0	98.5	98.0	98.5	98.0	98.0
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## COMPACTION ASSESSMENT

### CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 19333  
Report No 19333/R007  
Date Issued 05/07/2019

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JB
Project	ALBRIGHT ESTATE - STAGE 7B	Date tested	05/07/19
Location	TRUGANINA	Checked by	JHF

Feature	CLASS 3	Layer thickness	160 mm	Time:	10:40:01
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AS 12892.1.1 & 5.8.1

Test No		30	31	32	33	34	35
Location		Axle Drive					
Chainage		820	870	920	970	1020	1070
Offset		1.5	1.8	1.4	2.4	1.5	1.4
		east	west	north	east	west	east
		of kerb	of kerb	of kerb	of kerb	of kerb	of kerb
Approximate depth from F.S.L.	m						
Measurement depth	mm	150	150	150	150	150	150
Field wet density	t/m <sup>3</sup>	2.44	2.48	2.47	2.44	2.45	2.48
Field dry density	t/m <sup>3</sup>	2.30	2.30	2.29	2.29	2.29	2.33
Field moisture content	%	6.0	8.0	8.0	6.0	7.0	6.5

Laboratory Compaction AS 1289.5.2.1 & 5.4.2 Assigned Values (See Report No 203MWVHY)

Date of assignment		04/07/2019
Material source and location		20mm Class 3 - MVQ, Wyndham Vale
Compactive effort		MODIFIED
Maximum Dry Density	t/m <sup>3</sup>	2.34
Optimum Moisture Content	%	7.5

Test procedure AS 1289.5.4.1

Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	-	-	-	-	-	-
Percent of oversize material	dry	-	-	-	-	-	-
Adjusted Maximum Dry Density	t/m <sup>3</sup>	-	-	-	-	-	-
Adjusted Optimum Moisture Content	%	-	-	-	-	-	-

Moisture Variation From Optimum Moisture Content		1.5% dry	0.5% wet	0.5% wet	1.0% dry	0.5% dry	1.0% dry
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Moisture Ratio (R <sub>m</sub> )	%	77.5	109.0	109.0	84.5	94.0	85.5
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Density Ratio (R <sub>D</sub> )	%	98.5	98.0	98.0	98.0	98.0	99.5
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## COMPACTION ASSESSMENT

### CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 19333  
Report No 19333/R008  
Date Issued 05/07/2019

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JB
Project	ALBRIGHT ESTATE - STAGE 7B	Date tested	05/07/19
Location	TRUGANINA	Checked by	JHF

Feature	CLASS 3	Layer thickness	160 mm	Time:	11:20:36
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AS 12892.1.1 & 5.8.1

Test No		36	37				
Location		Trafford Drive					
Chainage		670	720				
Offset		1.5	1.8				
		north	south				
		of kerb	of kerb				
Approximate depth from F.S.L.	m						
Measurement depth	mm	150	150				
Field wet density	t/m <sup>3</sup>	2.44	2.47				
Field dry density	t/m <sup>3</sup>	2.30	2.33				
Field moisture content	%	6.0	6.0				

Laboratory Compaction AS 1289.5.2.1 & 5.4.2 Assigned Values (See Report No 203MWVHY)

Date of assignment		04/07/2019
Material source and location		20mm Class 3 - MVQ, Wyndham Vale
Compactive effort		MODIFIED
Maximum Dry Density	t/m <sup>3</sup>	2.34
Optimum Moisture Content	%	7.5

Test procedure AS 1289.5.4.1

Oversize rock retained on sieve	mm	19.0	19.0				
Percent of oversize material	wet	-	-				
Percent of oversize material	dry	-	-				
Adjusted Maximum Dry Density	t/m <sup>3</sup>	-	-				
Adjusted Optimum Moisture Content	%	-	-				

Moisture Variation From Optimum Moisture Content	1.0% dry	1.5% dry				
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Moisture Ratio (R <sub>m</sub> )	%	84.5	79.0				
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Density Ratio (R <sub>D</sub> )	%	98.0	99.5				
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