



# COMPACTION ASSESSMENT

Job No 20084  
 Report No 20084/R001  
 Date Issued 15/02/2020

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BS
Project	EYNESBURY - STAGE 11A4	Date tested	14/02/20
Location	EYNESBURY	Checked by	JHF

<b>Feature</b>	<b>CAPPING</b>	<b>Layer thickness</b>	150 / 160 mm	<b>Time:</b>	13:55:19
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AS 12892.1.1 & 5.8.1

Test No	1	2	3	4	5	6
Location	Monbulk Way				St Arnaud Road	
Chainage	10	60	110	160	1090	1140
Offset	1.8	1.9	1.7	2.1	2.0	1.8
	north of kerb	south of kerb	north of kerb	south of kerb	east of kerb	west 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>	2.14	2.14	2.14	2.24	2.25
Field dry density	t/m <sup>3</sup>	1.92	1.91	1.91	1.97	1.95
Field moisture content	%	12.0	12.0	12.0	13.5	14.0

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

Date of assignment	15/01/2020
Material source and location	40mm Capping - MVQ, Wyndham Vale
Compactive effort	STANDARD
Maximum Dry Density	t/m <sup>3</sup> 1.96
Optimum Moisture Content	% 14.5

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	%	-	-	-	-	-	-

<b>Moisture Variation From Optimum Moisture Content</b>	2.5% dry	2.5% dry	2.5% dry	1.0% dry	0.5% dry	1.5% dry
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<b>Moisture Ratio (R<sub>m</sub>)</b>	%	81.5	82.0	81.5	94.0	97.0	89.0
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<b>Density Ratio (R<sub>D</sub>)</b>	%	<b>98.0</b>	<b>98.0</b>	<b>98.0</b>	<b>100.5</b>	<b>101.0</b>	<b>99.5</b>
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Approved Signatory : Justin Fry



# COMPACTION ASSESSMENT

Job No 20084  
 Report No 20084/R002  
 Date Issued 17/02/2020

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BS
Project	EYNESBURY - STAGE 11A4	Date tested	17/02/20
Location	EYNESBURY	Checked by	JHF

<b>Feature</b>	<b>CAPPING</b>	<b>Layer thickness</b>	160 mm	<b>Time:</b>	13:05:00
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AS 12892.1.1 & 5.8.1

Test No		7	8	9			
Location		Hazelmere Avenue					
	Chainage	90	140	170			
	Offset	1.9	2.0	1.8			
		north of kerb	south of kerb	north of kerb			
Approximate depth from F.S.L.	m						
Measurement depth	mm	125	125	125			
Field wet density	t/m <sup>3</sup>	2.15	2.14	2.14			
Field dry density	t/m <sup>3</sup>	1.92	1.92	1.92			
Field moisture content	%	12.0	12.0	12.0			

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

Date of assignment		15/01/2020
Material source and location		40mm Capping - MVQ, Wyndham Vale
Compactive effort		STANDARD
Maximum Dry Density	t/m <sup>3</sup>	1.96
Optimum Moisture Content	%	14.5

Test procedure AS 1289.5.4.1

Oversize rock retained on sieve	mm	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	%	-	-	-			

<b>Moisture Variation From Optimum Moisture Content</b>		2.5% dry	2.5% dry	2.5% dry			
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<b>Moisture Ratio (R<sub>m</sub>)</b>	%	82.0	81.5	81.0			
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<b>Density Ratio (R<sub>D</sub>)</b>	%	<b>98.0</b>	<b>98.0</b>	<b>98.0</b>			
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## COMPACTION ASSESSMENT

### CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 20084  
Report No 20084/R003  
Date Issued 02/03/2020

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	WS
Project	EYNESBURY - STAGE 11A4	Date tested	02/03/20
Location	EYNESBURY	Checked by	JHF

<b>Feature</b>	<b>CAPPING</b>	<b>Layer thickness</b>	160 / 150 mm	<b>Time:</b>	09:30:00
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AS 12892.1.1 & 5.8.1

Test No	10	11	12	13	14	15
Location	St Arnaud Road		Monbulk Way			Hazelmere Avenue
Chainage	1080	1130	70	120	170	130
Offset	1.2	1.4	1.6	1.3	1.5	1.7
	north of kerb	south of kerb	north of kerb	east of kerb	west of kerb	north of kerb
Approximate depth from F.S.L. <span style="float: right;">m</span>						
Measurement depth <span style="float: right;">mm</span>	125	125	125	125	125	125
Field wet density <span style="float: right;">t/m<sup>3</sup></span>	2.18	2.17	2.16	2.15	2.15	2.23
Field dry density <span style="float: right;">t/m<sup>3</sup></span>	1.94	1.94	1.93	1.92	1.92	1.96
Field moisture content <span style="float: right;">%</span>	12.0	12.0	12.0	12.0	12.0	13.5

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

Date of assignment	15/01/2020
Material source and location	40mm Capping - MVQ, Wyndham Vale
Compactive effort	STANDARD
Maximum Dry Density <span style="float: right;">t/m<sup>3</sup></span>	1.96
Optimum Moisture Content <span style="float: right;">%</span>	14.5

Test procedure AS 1289.5.4.1

Oversize rock retained on sieve <span style="float: right;">mm</span>	37.5	37.5	37.5	37.5	37.5	37.5
Percent of oversize material <span style="float: right;">wet</span>	-	-	-	-	-	-
Percent of oversize material <span style="float: right;">dry</span>	-	-	-	-	-	-
Adjusted Maximum Dry Density <span style="float: right;">t/m<sup>3</sup></span>	-	-	-	-	-	-
Adjusted Optimum Moisture Content <span style="float: right;">%</span>	-	-	-	-	-	-

<b>Moisture Variation From Optimum Moisture Content</b>	2.5% dry	2.5% dry	2.5% dry	2.5% dry	2.5% dry	1.0% dry
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<b>Moisture Ratio ( R<sub>m</sub> )</b>	%	81.5	82.5	83.0	82.5	81.0	94.5
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<b>Density Ratio ( R<sub>D</sub> )</b>	%	<b>99.5</b>	<b>99.0</b>	<b>98.5</b>	<b>98.0</b>	<b>98.0</b>	<b>100.5</b>
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## COMPACTION ASSESSMENT

**CIVIL GEOTECHNICAL SERVICES**

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 20084  
 Report No 20084/R004  
 Date Issued 21/05/2020

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	WS
Project	EYNESBURY - STAGE 11A4	Date tested	21/05/20
Location	EYNESBURY	Checked by	JHF

<b>Feature</b>	<b>CLASS 3</b>	Layer thickness	170 / 150 mm	Time:	10:30:00
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AS 12892.1.1 & 5.8.1

Test No	16	17	18	19	20	21
Location	Monbulk Way				St Arnaud Loop	
Chainage	50	100	150	200	1080	1130
Offset	1.4	1.7	1.2	1.3	1.5	1.6
	north of kerb	east of kerb	west of kerb	south of kerb	north of kerb	south of kerb
Approximate depth from F.S.L.	m					
Measurement depth	mm	150	150	150	125	125
Field wet density	t/m <sup>3</sup>	2.40	2.39	2.40	2.41	2.39
Field dry density	t/m <sup>3</sup>	2.27	2.26	2.27	2.27	2.27
Field moisture content	%	6.0	5.5	5.5	6.0	5.5

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

Date of assignment	19/05/2020
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	%

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	%	-	-	-	-	-	-

<b>Moisture Variation From Optimum Moisture Content</b>	1.5% dry	2.0% dry	2.0% dry	1.5% dry	2.0% dry	2.0% dry
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<b>Moisture Ratio ( R<sub>m</sub> )</b>	%	77.5	74.5	75.5	79.5	72.0	74.0
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<b>Density Ratio ( R<sub>D</sub> )</b>	%	<b>98.0</b>	<b>98.0</b>	<b>98.0</b>	<b>98.0</b>	<b>98.0</b>	<b>98.0</b>
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# COMPACTION ASSESSMENT

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 20084  
Report No 20084/R005  
Date Issued 21/05/2020

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	WS
Project	EYNESBURY - STAGE 11A4	Date tested	21/05/20
Location	EYNESBURY	Checked by	JHF

<b>Feature</b>	<b>CLASS 3</b>	<b>Layer thickness</b>	160 mm	<b>Time:</b>	10:30:00
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AS 12892.1.1 & 5.8.1

Test No		22	23	24			
Location		Hazelmere Avenue					
	Chainage	90	140	170			
	Offset	1.4	1.6	1.3			
		north	south	north			
		of kerb	of kerb	of kerb			
Approximate depth from F.S.L.	m						
Measurement depth	mm	150	150	150			
Field wet density	t/m <sup>3</sup>	2.40	2.41	2.41			
Field dry density	t/m <sup>3</sup>	2.28	2.29	2.28			
Field moisture content	%	5.0	5.5	5.5			

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

Date of assignment		19/05/2020
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	%	-	-	-			

<b>Moisture Variation From Optimum Moisture Content</b>		2.5% dry	2.5% dry	2.0% dry			
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<b>Moisture Ratio ( R<sub>m</sub> )</b>	%	69.0	69.5	71.5			
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<b>Density Ratio ( R<sub>D</sub> )</b>	%	98.5	98.5	98.5			
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## COMPACTION ASSESSMENT

**CIVIL GEOTECHNICAL SERVICES**

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 20084  
 Report No 20084/R006  
 Date Issued 08/07/2020

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	WS
Project	EYNESBURY - STAGE 11A4	Date tested	08/07/20
Location	EYNESBURY	Checked by	JHF

<b>Feature</b>	<b>CLASS 2</b>	Layer thickness	110 / 150 mm	Time:	09:00:00
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AS 12892.1.1 & 5.8.1

Test No	25	26	27	28	29	30
Location	Monbulk Way				St Arnaud Road	
Chainage	50	100	150	200	1080	1130
Offset	1.2	1.5	1.6	1.4	1.3	1.7
	north	east	west	south	north	south
	of kerb	of kerb	of kerb	of kerb	of kerb	of kerb
Approximate depth from F.S.L.	m					
Measurement depth	mm	100	100	100	125	125
Field wet density	t/m <sup>3</sup>	2.45	2.44	2.44	2.44	2.43
Field dry density	t/m <sup>3</sup>	2.34	2.34	2.33	2.34	2.31
Field moisture content	%	4.5	4.5	4.5	4.5	5.0

Laboratory Compaction AS 1289.5.2.1 & 5.4.2 Assigned Values (See Report No 202MWWHS)

Date of assignment	28/05/2020
Material source and location	20mm Class 2 - MVQ, Wyndham Vale
Compactive effort	MODIFIED
Maximum Dry Density	t/m <sup>3</sup> 2.31
Optimum Moisture Content	%

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	%	-	-	-	-	-	-

<b>Moisture Variation From Optimum Moisture Content</b>		3.0%	3.0%	3.0%	3.0%	3.0%	2.5%
		dry	dry	dry	dry	dry	dry

<b>Moisture Ratio ( R<sub>m</sub> )</b>	%	60.0	57.0	60.5	59.0	60.5	68.5
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<b>Density Ratio ( R<sub>D</sub> )</b>	%	101.0	101.0	101.0	101.0	100.5	100.0
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Approved Signatory : Justin Fry



# COMPACTION ASSESSMENT

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 20084  
Report No 20084/R007  
Date Issued 08/07/2020

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	WS
Project	EYNESBURY - STAGE 11A4	Date tested	08/07/20
Location	EYNESBURY	Checked by	JHF

<b>Feature</b>	<b>CLASS 2</b>	<b>Layer thickness</b>	120 mm	<b>Time:</b>	09:00:00
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AS 12892.1.1 & 5.8.1

Test No		31	32	33			
Location		Hazelmere Avenue					
	Chainage	90	140	170			
	Offset	1.4	1.5	1.2			
		north	south	north			
		of kerb	of kerb	of kerb			
Approximate depth from F.S.L.	m						
Measurement depth	mm	100	100	100			
Field wet density	t/m <sup>3</sup>	2.44	2.43	2.46			
Field dry density	t/m <sup>3</sup>	2.33	2.32	2.34			
Field moisture content	%	4.5	4.5	5.0			

Laboratory Compaction AS 1289.5.2.1 & 5.4.2 Assigned Values (See Report No 202MWWHS)

Date of assignment		28/05/2020					
Material source and location		20mm Class 2 - MVQ, Wyndham Vale					
Compactive effort		MODIFIED					
Maximum Dry Density	t/m <sup>3</sup>	2.31					
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	%	-	-	-			

<b>Moisture Variation From Optimum Moisture Content</b>		3.0% dry	3.0% dry	2.5% dry			
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<b>Moisture Ratio ( R<sub>m</sub> )</b>	%	60.5	61.5	65.5			
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<b>Density Ratio ( R<sub>D</sub> )</b>	%	101.0	100.5	101.5			
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