



COMPACTION ASSESSMENT

Job No 20085
 Report No 20085/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 11A6	Date tested	14/02/20
Location	EYNESBURY	Checked by	JHF

Feature	CAPPING	Layer thickness	150 / 160 mm	Time:	14:07:42
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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	30	1160	1180	1200	1220	1240
Offset	1.8	1.7	1.9	2.0	2.1	1.9
	east of kerb	south of kerb	north of kerb	south of kerb	north of kerb	south of kerb
Approximate depth from F.S.L. m						
Measurement depth mm	125	125	125	125	125	125
Field wet density t/m³	2.23	2.16	2.16	2.14	2.15	2.15
Field dry density t/m³	1.97	1.93	1.93	1.91	1.92	1.92
Field moisture content %	13.0	12.0	12.0	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/m³	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/m³	-	-	-	-	-	-
Adjusted Optimum Moisture Content %	-	-	-	-	-	-

Moisture Variation From Optimum Moisture Content	1.5% dry	2.5% dry	2.5% dry	2.5% dry	2.5% dry	2.5% dry
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Moisture Ratio (R_m)	%	91.0	83.0	82.0	82.0	82.0	81.5
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Density Ratio (R_D)	%	100.5	98.5	98.5	98.0	98.5	98.0
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Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 20085
Report No 20085/R002
Date Issued 02/03/2020

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	WS
Project	EYNESBURY - STAGE 11A6	Date tested	02/03/20
Location	EYNESBURY	Checked by	JHF

Feature	CAPPING	Layer thickness	160 / 150 mm	Time:	10:30:00
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AS 12892.1.1 & 5.8.1

Test No	7	8	9	10	11	12
Location	St Arnaud Road				Hazelmere Avenue	
Chainage	1260	1280	1300	1320	10	60
Offset	1.2	1.5	1.7	1.3	1.4	1.6
	north of kerb	south of kerb	north of kerb	south of kerb	north of kerb	south of kerb
Approximate depth from F.S.L. m						
Measurement depth mm	125	125	125	125	125	125
Field wet density t/m³	2.15	2.14	2.15	2.19	2.20	2.15
Field dry density t/m³	1.92	1.92	1.92	1.94	1.94	1.92
Field moisture content %	12.0	12.0	12.0	12.5	13.5	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/m³	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/m³	-	-	-	-	-	-
Adjusted Optimum Moisture Content %	-	-	-	-	-	-

Moisture Variation From Optimum Moisture Content	2.5% dry	2.5% dry	2.5% dry	2.0% dry	1.0% dry	2.5% dry
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Moisture Ratio (R_m)	83.5	81.5	82.0	86.5	93.5	82.5
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Density Ratio (R_D)	98.0	98.0	98.0	99.5	99.0	98.0
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COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 20085
Report No 20085/R003
Date Issued 02/03/2020

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	WS
Project	EYNESBURY - STAGE 11A6	Date tested	02/03/20
Location	EYNESBURY	Checked by	JHF

Feature	CAPPING	Layer thickness	150 mm	Time:	10:30:00
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AS 12892.1.1 & 5.8.1

Test No		13	14	15			
Location		Delancy Way					
	Chainage	60	110	160			
	Offset	1.2	1.5	1.7			
		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 ³	2.17	2.21	2.15			
Field dry density	t/m ³	1.94	1.94	1.92			
Field moisture content	%	12.5	13.5	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 ³	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 ³	-	-	-			
Adjusted Optimum Moisture Content	%	-	-	-			

Moisture Variation From Optimum Moisture Content		2.0% dry	1.0% dry	2.5% dry			
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Moisture Ratio (R _m)	%	84.5	94.5	82.0			
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Density Ratio (R _D)	%	99.0	99.0	98.0			
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COMPACTION ASSESSMENT

Job No 20085
 Report No 20085/R004
 Date Issued 02/03/2020

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	WS
Project	EYNESBURY - STAGE 11A6	Date tested	02/03/20
Location	EYNESBURY	Checked by	JHF

Feature	CAPPING	Layer thickness	180 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		Greenhill Road					
Chainage Offset		280	330	380	440	500	560
		1.3 east of kerb	1.6 west of kerb	1.4 east of kerb	1.8 west of kerb	1.5 east of kerb	1.7 west of kerb
Approximate depth from F.S.L.	m						
Measurement depth	mm	150	150	150	150	150	150
Field wet density	t/m ³	2.16	2.15	2.14	2.15	2.17	2.14
Field dry density	t/m ³	1.92	1.92	1.91	1.92	1.94	1.92
Field moisture content	%	12.0	12.0	12.0	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 ³	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 ³	-	-	-	-	-	-
Adjusted Optimum Moisture Content	%	-	-	-	-	-	-

Moisture Variation From Optimum Moisture Content		2.5% dry	2.5% dry	2.5% dry	2.5% dry	2.5% dry	2.5% dry
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Moisture Ratio (R_m)	%	83.0	82.5	82.0	83.5	82.5	81.5
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Density Ratio (R_D)	%	98.5	98.0	98.0	98.0	99.0	98.0
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COMPACTION ASSESSMENT

Job No 20085
 Report No 20085/R005
 Date Issued 08/04/2020

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	WS
Project	EYNESBURY - STAGE 11A6	Date tested	08/04/20
Location	EYNESBURY	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	22	23	24	25	26	27
Location	Greenhill Road					
Chainage	280	330	380	440	500	560
Offset	1.3	1.7	1.4	1.2	1.6	1.5
	east of kerb	west of kerb	east of kerb	west of kerb	east of kerb	west of kerb
Approximate depth from F.S.L. m						
Measurement depth mm	125	125	125	125	125	125
Field wet density t/m³	2.42	2.46	2.41	2.39	2.43	2.40
Field dry density t/m³	2.26	2.29	2.27	2.27	2.30	2.28
Field moisture content %	7.0	7.5	6.5	5.5	5.5	5.5

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

Date of assignment	31/03/2020
Material source and location	20mm Class 3 - MVQ, Wyndham Vale
Compactive effort	MODIFIED
Maximum Dry Density t/m³	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	19.0	19.0	19.0
Percent of oversize material wet	-	-	-	-	-	-
Percent of oversize material dry	-	-	-	-	-	-
Adjusted Maximum Dry Density t/m³	-	-	-	-	-	-
Adjusted Optimum Moisture Content %	-	-	-	-	-	-

Moisture Variation From Optimum Moisture Content	0.5% dry	0.0% dry	1.0% dry	2.0% dry	2.0% dry	2.0% dry
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Moisture Ratio (R_m)	%	92.0	99.5	86.0	71.0	73.5	71.0
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Density Ratio (R_D)	%	98.0	99.0	98.0	98.0	99.5	98.5
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COMPACTION ASSESSMENT

Job No 20085
 Report No 20085/R006
 Date Issued 08/04/2020

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	WS
Project	EYNESBURY - STAGE 11A6	Date tested	08/04/20
Location	EYNESBURY	Checked by	JHF

Feature	CLASS 3	Layer thickness	170 mm	Time:	10:00:00
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AS 12892.1.1 & 5.8.1

Test No		28	29	30			
Location		Delancy Way					
Chainage Offset	60	110	160				
	1.4 east of kerb	1.6 west of kerb	1.3 east of kerb				
Approximate depth from F.S.L.	m						
Measurement depth	mm	125	125	125			
Field wet density	t/m ³	2.38	2.39	2.38			
Field dry density	t/m ³	2.27	2.27	2.27			
Field moisture content	%	5.0	5.5	5.0			

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

Date of assignment		31/03/2020					
Material source and location		20mm Class 3 - MVQ, Wyndham Vale					
Compactive effort		MODIFIED					
Maximum Dry Density	t/m ³	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 ³	-	-	-			
Adjusted Optimum Moisture Content	%	-	-	-			

Moisture Variation From Optimum Moisture Content		2.5% dry	2.5% dry	2.5% dry			
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Moisture Ratio (R _m)	%	66.5	70.0	65.5			
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Density Ratio (R _D)	%	98.0	98.0	98.0			
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COMPACTION ASSESSMENT

Job No 20085
 Report No 20085/R007
 Date Issued 08/04/2020

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	WS
Project	EYNESBURY - STAGE 11A6	Date tested	08/04/20
Location	EYNESBURY	Checked by	JHF

Feature	CLASS 3	Layer thickness	170 / 160 / 150 mm	Time:	10:00:00
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AS 12892.1.1 & 5.8.1

Test No		31	32	33	34	35	36
Location		Monbulk Way	Hazelmere Avenue	St Arnaud Road			
Chainage		30	40	1150	1200	1250	1300
Offset		1.2	1.5	1.3	1.7	1.6	1.4
		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	125	125	125	125	125	125
Field wet density	t/m ³	2.43	2.46	2.39	2.40	2.38	2.39
Field dry density	t/m ³	2.26	2.28	2.27	2.27	2.27	2.27
Field moisture content	%	7.0	8.0	5.5	5.5	5.0	5.5

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

Date of assignment		31/03/2020
Material source and location		20mm Class 3 - MVQ, Wyndham Vale
Compactive effort		MODIFIED
Maximum Dry Density	t/m ³	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	19.0	19.0	19.0
Percent of oversize material	wet	-	-	-	-	-	-
Percent of oversize material	dry	-	-	-	-	-	-
Adjusted Maximum Dry Density	t/m ³	-	-	-	-	-	-
Adjusted Optimum Moisture Content	%	-	-	-	-	-	-

Moisture Variation From Optimum Moisture Content		0.5% dry	0.0% wet	2.0% dry	2.0% dry	2.5% dry	2.0% dry
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Moisture Ratio (R _m)	%	95.0	103.0	73.5	74.5	65.5	73.5
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Density Ratio (R _D)	%	98.0	98.5	98.0	98.0	98.0	98.0
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COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 20085
Report No 20085/R008
Date Issued 08/07/2020

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	WS
Project	EYNESBURY - STAGE 11A6	Date tested	08/07/20
Location	EYNESBURY	Checked by	JHF

Feature	CLASS 2	Layer thickness	150 mm	Time:	10:45:00
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AS 12892.1.1 & 5.8.1

Test No		37	38	39			
Location		St Arnaud Road					
	Chainage	1175	1225	1275			
	Offset	1.4	1.7	1.2			
		north	south	north			
		of kerb	of kerb	of kerb			
Approximate depth from F.S.L.	m						
Measurement depth	mm	125	125	125			
Field wet density	t/m ³	2.43	2.46	2.44			
Field dry density	t/m ³	2.32	2.35	2.32			
Field moisture content	%	5.0	5.0	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 ³	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 ³	-	-	-			
Adjusted Optimum Moisture Content	%	-	-	-			

Moisture Variation From Optimum Moisture Content		2.5% dry	2.5% dry	2.5% dry			
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Moisture Ratio (R_m)	%	64.0	67.5	69.0			
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Density Ratio (R_D)	%	100.5	101.5	100.5			
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COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 20085
 Report No 20085/R009
 Date Issued 08/07/2020

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	WS
Project	EYNESBURY - STAGE 11A6	Date tested	08/07/20
Location	EYNESBURY	Checked by	JHF

Feature	CLASS 2	Layer thickness	110 mm	Time:	10:45:00
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AS 12892.1.1 & 5.8.1

Test No	40	41	42	43	44	45
Location	Delancy Way				Monbulk Way	Hazelmere Avenue
Chainage	60	90	120	160	30	40
Offset	1.4	1.7	1.3	1.6	1.5	1.2
	east of kerb	west of kerb	east of kerb	west of kerb	east of kerb	west of kerb
Approximate depth from F.S.L.	m					
Measurement depth	mm	100	100	100	100	100
Field wet density	t/m ³	2.48	2.48	2.46	2.45	2.44
Field dry density	t/m ³	2.35	2.35	2.35	2.33	2.34
Field moisture content	%	5.5	5.5	5.0	5.0	4.5

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 ³ 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 ³	-	-	-	-	-	-
Adjusted Optimum Moisture Content	%	-	-	-	-	-	-

Moisture Variation From Optimum Moisture Content	2.0%	2.0%	2.5%	2.5%	2.0%	3.0%
	dry	dry	dry	dry	dry	dry

Moisture Ratio (R_m)	%	73.5	71.5	64.0	68.0	72.5	58.0
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Density Ratio (R_D)	%	101.5	101.5	101.5	101.0	100.5	101.0
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COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136

Job No 20085
Report No 20085/R010
Date Issued 09/07/2020

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	WS
Project	EYNESBURY - STAGE 11A6	Date tested	09/07/20
Location	EYNESBURY	Checked by	JHF

Feature	CLASS 2	Layer thickness	160 mm	Time:	07:15:00
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AS 12892.1.1 & 5.8.1

Test No		46	47	48	49	50	51
Location		Greenhill Road					
	Chainage	280	330	380	440	500	560
	Offset	1.3	1.6	1.2	1.5	1.4	1.7
		east	west	east	west	east	west
		of kerb	of kerb	of kerb	of kerb	of kerb	of kerb
Approximate depth from F.S.L.	m						
Measurement depth	mm	125	125	125	125	125	125
Field wet density	t/m ³	2.43	2.44	2.43	2.43	2.42	2.45
Field dry density	t/m ³	2.32	2.33	2.33	2.32	2.32	2.34
Field moisture content	%	5.0	5.0	4.5	5.0	4.5	4.5

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 ³	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	19.0	19.0	19.0
Percent of oversize material	wet	-	-	-	-	-	-
Percent of oversize material	dry	-	-	-	-	-	-
Adjusted Maximum Dry Density	t/m ³	-	-	-	-	-	-
Adjusted Optimum Moisture Content	%	-	-	-	-	-	-

Moisture Variation From Optimum Moisture Content		2.5% dry	2.5% dry	3.0% dry	2.5% dry	3.0% dry	3.0% dry
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Moisture Ratio (R_m)	%	64.5	65.5	61.0	64.5	58.0	60.5
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Density Ratio (R_D)	%	100.0	101.0	100.5	100.0	100.0	101.5
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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