

Feature

COMPACTION ASSESSMENT

Layer thickness

CIVIL GEOTECHNICAL SERVICES

Report No Date Issued 02/04/2021

6 - 8 Rose Avenue, Croydon, Vic 3136

Tested by

Job No

21418/R001

21418

JΒ

WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) Client Project **CORNERSTONE - STAGE 16B**

Date tested Checked by

01/04/21

Location WYNDHAM VALE

CAPPING*

JHF

250 mm

11:21:43 Time:

Test No		1	2	3	4	5	6
Location		Ca	nadian Aver	nue	(Gosfield Driv	e
	Chainage	210	260	310	110	160	210
	Offset	1.4	1.9	1.7	2.2	1.3	1.8
		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	175	175	175	175	175	175
Field wet density	t/m³	2.07	2.08	2.09	2.06	2.09	2.09
Field dry density	t/m³	1.94	1.95	1.93	1.91	1.93	1.94
Field moisture content	%	7.0	6.5	8.0	8.0	8.5	7.5
Laboratory Compaction AS 1289.	5.1.1 & 5.4.2	? Assigned \	/alues (See l	Report No 40	SMWVCX)		
Date of assignment			,	•	2/2021		
Material source and location			40mm	Capping - M	VQ, Wyndha	ım Vale	
Compactive effort				STAN	DARD		
Maximum Dry Density	t/m³			2.0	05		
Optimum Moisture Content	%			11	.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	-	-		-	-	-

Oversize rock retained on sieve	mm	37.5	37.5	37.5	37.5	37.5	37.5
Percent of oversize material	wet	-	ı	-	-	-	-
Percent of oversize material	dry	-	ı	-	-	-	-
Adjusted Maximum Dry Density	t/m³	-	ı	-	-	-	-
Adjusted Optimum Moisture Content	%	-		-	-	-	-

Moisture Variation From Optimum Moisture Content	4.5% dry	5.0% dry	4.0% dry	3.5% dry	3.5% dry	4.0% dry
Moisture Ratio (R_m)	60.0	56.0	67.0	70.0	70.5	65.0

Density Ratio (R_D) %	94.5	95.5	94.5	93.0	94.0	95.0

Retested in report 21418/R002

A581ASSIGNED V1.13 MAR 13

NATA Accredited Laboratory No 9909 Accredited for compliance with ISO/IEC 17025 - Testing



CIVIL GEOTECHNICAL SERVICES

Report No 21418/R002 Date Issued 08/04/2021

21418

Job No

6 - 8 Rose Avenue, Croydon, Vic 3136

Client WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)

Tested by JB
Date tested 08/04/21

Project CORNERSTONE - STAGE 16B Location WYNDHAM VALE

Date tested 08/04/2 Checked by JHF

Feature CAPPING Layer thickness 250 mm Time: 07:46:33

Test No		7	8	9	10	11	12
Location		Ca	nadian Aver	nue	(Gosfield Driv	е
C	hainage	210	260	310	110	160	210
	Offset	1.4	1.9	1.7	2.2	1.3	1.8
		east	west	east	west	east	west
		of kerb	of kerb	of kerb	of kerb	of kerb	of kerb
Approximate depth from F.S.L.	т						
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	2.27	2.29	2.29	2.26	2.29	2.30
Field dry density	t/m³	2.04	2.04	2.05	2.04	2.06	2.06
Field moisture content	%	11.5	12.0	12.0	11.0	11.0	12.0
Maximum Dry Density Optimum Moisture Content	t/m³ %			2.0			
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	-	-	-	-	-	-
Percent of oversize material Percent of oversize material Adjusted Maximum Dry Density	dry t/m³	-	- -	-	-	-	-
Percent of oversize material Percent of oversize material Adjusted Maximum Dry Density	dry t/m³	-	- - -	-	- - -	- - -	- - -
Percent of oversize material Percent of oversize material Adjusted Maximum Dry Density	dry t/m³	0.5%		0.5%	0.5%	0.5%	0.0%
Percent of oversize material Percent of oversize material Adjusted Maximum Dry Density Adjusted Optimum Moisture Content	dry t/m³ %	-	- - - - 0.5% wet	-	- - - 0.5% dry	- - - 0.5% dry	- - - 0.0% wet
Percent of oversize material Percent of oversize material Adjusted Maximum Dry Density Adjusted Optimum Moisture Content Moisture Variation From	dry t/m³ %	0.5%		0.5%			

NATA Accredited Laboratory No 9909
Accredited for compliance with
ISO/IEC 17025 - Testing

A581ASSIGNED V1.13 MAR 13



Job No
CIVIL GEOTECHNICAL SERVICES
Report No
6 - 8 Rose Avenue, Croydon, Vic 3136
Date Issued

ClientWINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)Tested byJBProjectCORNERSTONE - STAGE 16BDate tested10/04/21LocationWYNDHAM VALEChecked byJHF

Feature CLASS 3* Layer thickness 180 mm Time: 12:46:25

Test No		13	14	15	16	17	18
Location		Ca	anadian Aver	nue	(Gosfield Driv	е
	Chainage	200	250	300	105	155	205
	Offset	2.5	1.2	2.2	0.9	1.8	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.	т						
Measurement depth	mm	150	150	150	150	150	150
Field wet density	t/m³	2.22	2.23	2.25	2.24	2.21	2.24
Field dry density	t/m³	2.13	2.17	2.19	2.18	2.15	2.19
Field moisture content	%	4.0	2.5	2.5	3.0	3.0	2.5
Maximum Dry Density Optimum Moisture Content	t/m³ %			2.3 7.			
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 Cont	ent %	-	-	-	-	-	-
Moisture Variation From	n	3.0%	4.5%	4.5%	4.5%	4.0%	5.0%
Optimum Moisture Cont	ent	dry	dry	dry	dry	dry	dry
Moisture Ratio (R _m)	%	57.5	36.5	36.5	39.5	41.5	33.5
			· · · · · · · · · · · · · · · · · · ·	·	·	· · · · · · · · · · · · · · · · · · ·	

Retested in report 21418/R004

NATA Accredited Laboratory No 9909
Accredited for compliance with
ISO/IEC 17025 - Testing

A581ASSIGNED V1.13 MAR 13

21418

21418/R003

12/04/2021



 CIVIL GEOTECHNICAL SERVICES
 Job No
 21418

 6 - 8 Rose Avenue, Croydon, Vic 3136
 Report No
 21418/R004

 Date Issued
 13/04/2021

 Client
 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)
 Tested by
 JB

 Project
 CORNERSTONE - STAGE 16B
 Date tested
 13/04/21

 Location
 WYNDHAM VALE
 Checked by
 JHF

Feature CLASS 3 Layer thickness 180 mm Time: 07:21:58

Test No		19	20	21	22	23	24
Location		Ca	anadian Aver	nue	(Gosfield Driv	е
С	: hainage	200	250	300	105	155	205
	Offset	2.5	1.2	2.2	0.9	1.8	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.	т	-	-	-	-	-	-
Measurement depth	mm	150	150	150	150	150	150
Field wet density	t/m³	2.45	2.46	2.44	2.46	2.46	2.46
Field dry density	t/m³	2.29	2.30	2.29	2.30	2.30	2.29
Field moisture content	%	7.0	6.5	6.5	7.5	7.0	7.5
			2011111		/Q, Wyndha	III Vale	
Compactive effort Maximum Dry Density Optimum Moisture Content	t/m³ %		2011111		IFIED 32	III vale	
Maximum Dry Density Optimum Moisture Content Test procedure AS 1289.5.4.1	%			MOD 2.: 7.	IFIED 32 0		
Maximum Dry Density Optimum Moisture Content Test procedure AS 1289.5.4.1 Oversize rock retained on sieve	% mm	19.0	19.0	MOD 2.3	IFIED 32	19.0	19.0
Maximum Dry Density Optimum Moisture Content Test procedure AS 1289.5.4.1 Oversize rock retained on sieve Percent of oversize material	mm wet	-		MOD 2.3 7.	IFIED 32 0		19.0
Maximum Dry Density Optimum Moisture Content Test procedure AS 1289.5.4.1 Oversize rock retained on sieve Percent of oversize material Percent of oversize material	mm wet dry	-	19.0 - -	19.0	19.0 -	19.0 - -	-
Maximum Dry Density Optimum Moisture Content Test procedure AS 1289.5.4.1 Oversize rock retained on sieve Percent of oversize material Percent of oversize material Adjusted Maximum Dry Density	mm wet dry t/m³	- - -	19.0 - -	19.0 - -	19.0 - -		- - -
Maximum Dry Density Optimum Moisture Content Test procedure AS 1289.5.4.1 Oversize rock retained on sieve Percent of oversize material Percent of oversize material Adjusted Maximum Dry Density	mm wet dry t/m³	-	19.0 - -	19.0	19.0 -	19.0 - -	-
Maximum Dry Density Optimum Moisture Content Test procedure AS 1289.5.4.1 Oversize rock retained on sieve Percent of oversize material Percent of oversize material Adjusted Maximum Dry Density	mm wet dry t/m³	- - -	19.0 - -	19.0 - -	19.0 - -	19.0 - -	- - -
Maximum Dry Density Optimum Moisture Content Test procedure AS 1289.5.4.1 Oversize rock retained on sieve Percent of oversize material Percent of oversize material Adjusted Maximum Dry Density Adjusted Optimum Moisture Content	mm wet dry t/m³	- - -	19.0 - - -	19.0 - - -	19.0 - - -	19.0 - - - -	- - -
Maximum Dry Density Optimum Moisture Content Test procedure AS 1289.5.4.1 Oversize rock retained on sieve Percent of oversize material Percent of oversize material Adjusted Maximum Dry Density Adjusted Optimum Moisture Content Moisture Variation From	mm wet dry t/m³	0.5%	19.0 - - - - - 0.5%	MOD 2.3 7. 19.0 0.5%	19.0 0.0%	19.0 - - - - - 0.5%	

NATA Accredited Laboratory No 9909
Accredited for compliance with
ISO/IEC 17025 - Testing

A581ASSIGNED V1.13 MAR 13



CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon, Vic 3136 Date Issued 16/04/2021

 Client
 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)
 Tested by
 JB

 Project
 CORNERSTONE - STAGE 16B
 Date tested
 16/04/21

 Location
 WYNDHAM VALE
 Checked by
 JHF

Feature CLASS 2* Layer thickness 140 mm Time: 15:35:38

Test No		25	26	27	28	29	30
Location		Ca	nadian Aver	nue	(Gosfield Driv	е
	Chainage	210	260	310	110	160	210
	Offset	2.5	1.2	0.9	1.6	2.4	1.3
		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/m³	2.27	2.29	2.24	2.26	2.24	2.25
Field dry density	t/m³	2.19	2.21	2.18	2.18	2.15	2.19
Field moisture content	%	4.0	3.5	2.5	4.0	4.0	2.5
Compactive effort			20mm		IFIED	m Vale	
Material source and location Compactive effort Maximum Dry Density Optimum Moisture Content	t/m³ %		20mm		IFIED 31	m Vale	
Compactive effort Maximum Dry Density Optimum Moisture Content			20mm	MOD 2.3	IFIED 31	m Vale	
Compactive effort Maximum Dry Density		19.0	20mm	MOD 2.3	IFIED 31	m Vale	19.0
Compactive effort Maximum Dry Density Optimum Moisture Content Test procedure AS 1289.5.4.1	%	19.0		MOD 2.3 8.	IFIED 31 0		19.0
Compactive effort Maximum Dry Density Optimum Moisture Content Test procedure AS 1289.5.4.1 Oversize rock retained on sieve	% mm	19.0		MOD 2.3 8.	IFIED 31 0		19.0
Compactive effort Maximum Dry Density Optimum Moisture Content Test procedure AS 1289.5.4.1 Oversize rock retained on sieve Percent of oversize material	mm wet	-		MOD 2.3 8.	IFIED 31 0		19.0 - -
Compactive effort Maximum Dry Density Optimum Moisture Content Test procedure AS 1289.5.4.1 Oversize rock retained on sieve Percent of oversize material Percent of oversize material Adjusted Maximum Dry Density	mm wet dry t/m³	-	19.0 - -	MOD 2.3 8. 19.0	19.0 -	19.0 - -	-
Compactive effort Maximum Dry Density Optimum Moisture Content Test procedure AS 1289.5.4.1 Oversize rock retained on sieve Percent of oversize material Percent of oversize material Adjusted Maximum Dry Density	mm wet dry t/m³ ent %	- - -	19.0 - - -	19.0 - -	19.0 - -	19.0 - - -	- - -
Compactive effort Maximum Dry Density Optimum Moisture Content Test procedure AS 1289.5.4.1 Oversize rock retained on sieve Percent of oversize material Percent of oversize material Adjusted Maximum Dry Density Adjusted Optimum Moisture Conte	mm wet dry t/m³ ent %		19.0 - - - -	MOD 2.3 8. 19.0 - - -	19.0 - - -	19.0 - - - -	- - -
Compactive effort Maximum Dry Density Optimum Moisture Content Test procedure AS 1289.5.4.1 Oversize rock retained on sieve Percent of oversize material Percent of oversize material Adjusted Maximum Dry Density Adjusted Optimum Moisture Conte	mm wet dry t/m³ ent %	- - - - 4.0%	19.0 - - - - - 4.0%	MOD 2.3 8. 19.0 5.0%	19.0 4.0%	19.0 - - - - - 4.0%	- - - - 5.5%

Retested in report 21418/R006

A581ASSIGNED V1.13 MAR 13



Approved Signatory : Justin Fry

Job No

Report No

21418

21418/R005



CIVIL GEOTECHNICAL SERVICES

 Job No
 21418

 Report No
 21418/R006

 Date Issued
 19/04/2021

6 - 8 Rose Avenue, Croydon, Vic 3136

Client WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)

Tested by JB
Date tested 17/04/21

Project CORNERSTONE - STAGE 16B Location WYNDHAM VALE

Checked by JHF

Feature CLASS 2 Layer thickness 140 mm Time: 07:14:19

Test No		31	32	33	34	35	36
Location		Ca	nadian Aver	nue	(Gosfield Driv	е
	Chainage	210	260	310	110	160	210
	Offset	2.5	1.2	0.9	1.6	2.4	1.3
		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/m³	2.47	2.49	2.46	2.44	2.44	2.45
Field dry density	t/m³	2.29	2.33	2.31	2.30	2.28	2.28
Field moisture content	%	8.0	6.5	6.5	6.0	7.0	7.5
Compactive effort			20mm		IFIED	m Vale	
Material source and location Compactive effort Maximum Dry Density Optimum Moisture Content	t/m³ %		20mm		IFIED 31	m Vale	
Compactive effort Maximum Dry Density			20mm	MOD 2.3	IFIED 31	m Vale	
Compactive effort Maximum Dry Density Optimum Moisture Content		19.0	20mm	MOD 2.3	IFIED 31	m Vale	19.0
Compactive effort Maximum Dry Density Optimum Moisture Content Test procedure AS 1289.5.4.1	%	19.0		MOD 2.: 8.	IFIED 31 0		19.0
Compactive effort Maximum Dry Density Optimum Moisture Content Test procedure AS 1289.5.4.1 Oversize rock retained on sieve Percent of oversize material	% mm	19.0		MOD 2.: 8.	IFIED 31 0		19.0
Compactive effort Maximum Dry Density Optimum Moisture Content Test procedure AS 1289.5.4.1 Oversize rock retained on sieve	mm wet	-		MOD 2.3 8.	IFIED 31 0		19.0 - -
Compactive effort Maximum Dry Density Optimum Moisture Content Test procedure AS 1289.5.4.1 Oversize rock retained on sieve Percent of oversize material Percent of oversize material Adjusted Maximum Dry Density	mm wet dry t/m³	-	19.0 - -	MOD 2.3 8.	19.0 -	19.0 - -	-
Compactive effort Maximum Dry Density Optimum Moisture Content Test procedure AS 1289.5.4.1 Oversize rock retained on sieve Percent of oversize material Percent of oversize material Adjusted Maximum Dry Density	mm wet dry t/m³ ent %	- - -	19.0 - -	19.0 - -	19.0 - -	19.0 - - -	- - -
Compactive effort Maximum Dry Density Optimum Moisture Content Test procedure AS 1289.5.4.1 Oversize rock retained on sieve Percent of oversize material Percent of oversize material Adjusted Maximum Dry Density Adjusted Optimum Moisture Conte	mm wet dry t/m³ ent %	- - - -	19.0 - - - -	19.0 - - -	19.0 - - -	19.0 - - - -	- - -
Compactive effort Maximum Dry Density Optimum Moisture Content Test procedure AS 1289.5.4.1 Oversize rock retained on sieve Percent of oversize material Percent of oversize material Adjusted Maximum Dry Density Adjusted Optimum Moisture Conte	mm wet dry t/m³ ent %	0.0%	19.0 - - - - 1.5%	19.0 - - - - 1.5%	19.0 2.0%	19.0 - - - - 1.0%	- - - - 0.5%

NATA Accredited Laboratory No 9909
Accredited for compliance with
ISO/IEC 17025 - Testing

A581ASSIGNED V1.13 MAR 13