

 CIVIL GEOTECHNICAL SERVICES
 Report No
 17047/R001

 6 - 8 Rose Avenue, Croydon, Vic 3136
 Date Issued
 30/01/17

 Client
 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)
 Tested by
 NB

 Project
 HAVEN ESTATE - STAGE 7
 Date tested
 27/01/17

 Location
 TARNEIT
 Checked by
 JHF

FeatureCAPPINGLayer thickness150 mmTime:08:01:47

Test No		1	2	3	4	5	6
Location				Sidon	Circuit		
	Chainage	50	100	150	200	250	300
	Offset	2.0	2.0	2.0	2.0	2.0	2.0
		east	west	north	south	north	east
		of kerb	of kerb	of kerb	of kerb	of kerb	of kerb
Approximate depth from F.S.L.	т						
Measurement depth	mm	125	125	125	125	125	125
Field wet density	t/m³	2.22	2.20	2.22	2.22	2.17	2.19
Field dry density	t/m³	2.01	2.00	2.01	2.01	1.96	1.98
Field moisture content	%	9.5	9.5	10.0	10.0	10.0	10.0
Compactive effort Maximum Dry Density Optimum Moisture Content			STAN 1.9 12				
Test procedure AS 1289.5.4.1				1			T
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 Conte	nt %	-	-	-	-	-	-
Moisture Variation Fron	n	2.5%	2.5%	2.5%	2.0%	2.5%	2.0%
Optimum Moisture Conte	ent	dry	dry	dry	dry	dry	dry
•		•	•		,		
Moisture Ratio (R_m)	%	78.5	78.5	81.0	82.5	82.0	83.0



July Jz



17047 Job No CIVIL GEOTECHNICAL SERVICES Report No 17047/R002 6 - 8 Rose Avenue, Croydon, Vic 3136 Date Issued 13/04/2017

WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) Tested by WS Project HAVEN ESTATE - STAGE 7 Date tested 27/01/2017 Location **TARNEIT** Checked by JHF

Feature **DRAINAGE** Layer thickness 200 mm 14:22:12 Time:

Test No		7	8				
Location	Pit	40 44	04 05				
	PIL	10 - 11	24 - 25				
Approximate depth from F.S.L.	т						<u> </u>
Measurement depth	mm	175	175				
Field wet density	t/m³	2.41	2.37				
Field dry density	t/m³	2.26	2.25				
Field moisture content	%	6.5	5.5				
Compactive effort Maximum Dry Density	t/m³			MODI 2.2			
Material source and location Compactive effort			2011111	Class 3 - MV MODI		ii vaic	
Optimum Moisture Content	%			8.0)		
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/m³	-	-	-	-	-	-
Adjusted Optimum Moisture Content	%	-	-	-	-	-	-
Moisture Variation From	J	1.0%	2.5%				
Optimum Moisture Content		dry	dry				
Moisture Ratio (R _m)	%	84.5	69.5				
			•	•			
Density Ratio (R _D)	%	98.5	98.0			1	





 CIVIL GEOTECHNICAL SERVICES
 Report No
 17047/R003

 6 - 8 Rose Avenue, Croydon, Vic 3136
 Date Issued
 03/02/17

 Client
 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)
 Tested by
 NB

 Project
 HAVEN ESTATE - STAGE 7
 Date tested
 02/02/17

 Location
 TARNEIT
 Checked by
 JHF

FeatureCAPPINGLayer thickness150 mmTime:12:35:21

		9	10	11			
Location		H	untsman Clos	se			
	,,	40		400			
C	Chainage	10	55	100			
	Offset	2.0	2.0	2.0			
		north	south	north			
		of kerb	of kerb	of kerb			
Approximate depth from F.S.L.	m	405	105	405			
Measurement depth	mm	125	125	125			
Field wet density	t/m³	2.20	2.17	2.18			
Field dry density	t/m³	1.98	1.97	1.98			
Field moisture content	%	10.5	10.0	9.5			
Date of assignment Material source and location			40mm	Capping - M		am Vale	
Compactive effort				STAN	DARD		
Maximum Dry Density	t/m³			1.9	99		
Optimum Moisture Content	%			12	2.5		
T							
Test procedure AS 1289.5.4.1							
Oversize rock retained on sieve	mm	37.5	37.5	37.5			
	mm wet	37.5	37.5	37.5 -			
Oversize rock retained on sieve		37.5 - -	37.5 - -				
Oversize rock retained on sieve Percent of oversize material Percent of oversize material Adjusted Maximum Dry Density	wet dry t/m³	-	-	-			
Oversize rock retained on sieve Percent of oversize material Percent of oversize material	wet dry t/m³	-	-	-			
Oversize rock retained on sieve Percent of oversize material Percent of oversize material Adjusted Maximum Dry Density	wet dry t/m³	- - -	- - -	- - -			
Oversize rock retained on sieve Percent of oversize material Percent of oversize material Adjusted Maximum Dry Density	wet dry t/m³	- - -	- - -	-			
Oversize rock retained on sieve Percent of oversize material Percent of oversize material Adjusted Maximum Dry Density Adjusted Optimum Moisture Content	wet dry t/m³	- - -	- - -	- - -			
Oversize rock retained on sieve Percent of oversize material Percent of oversize material Adjusted Maximum Dry Density Adjusted Optimum Moisture Content Moisture Variation From Optimum Moisture Content	wet dry t/m³ %	- - - - 1.5% dry	2.5% dry	- - - - 2.5% dry			
Oversize rock retained on sieve Percent of oversize material Percent of oversize material Adjusted Maximum Dry Density Adjusted Optimum Moisture Content Moisture Variation From	wet dry t/m³	- - - - 1.5%	2.5%	2.5%			



July Jz



 CIVIL GEOTECHNICAL SERVICES
 Job No
 17047

 6 - 8 Rose Avenue, Croydon, Vic 3136
 Report No
 17047/R004

 Date Issued
 28/02/17

 Client
 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)
 Tested by
 NB

 Project
 HAVEN ESTATE - STAGE 7
 Date tested
 24/02/17

 Location
 TARNEIT
 Checked by
 JHF

Feature CLASS 3 Layer thickness 150 mm Time: 09:34:14

Test No		12	13	14	15	16	17	
Location		Sidon Circuit						
	Chainage	50	100	150	200	250	300	
	Offset	2.0	2.0	2.0	2.0	2.0	2.0	
		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	125	125	125	125	125	125	
Field wet density	t/m³	2.43	2.37	2.40	2.40	2.41	2.41	
Field dry density	t/m³	2.27	2.25	2.26	2.26	2.24	2.24	
Field moisture content	%	7.0	5.5	6.0	6.0	7.5	7.5	
Maximum Dry Density Optimum Moisture Content	t/m³ %			2.: 8.				
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 Conte	ent %	-	-	-	-	-	-	
Moisture Variation From	n	0.5%	2.5%	2.0%	2.0%	0.0%	0.5%	
Optimum Moisture Cont	ent	dry	dry	dry	dry	dry	dry	
Moisture Ratio (R _m)	%	92.5	68.5	75.0	77.0	97.0	96.0	
		99.0	98.0	99.0	98.5	98.0	98.0	



Approved Signatory: Justin Fry



 CIVIL GEOTECHNICAL SERVICES
 Job No
 17047

 6 - 8 Rose Avenue, Croydon, Vic 3136
 Report No
 17047/R005

 Date Issued
 28/02/17

 Client
 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)
 Tested by
 NB

 Project
 HAVEN ESTATE - STAGE 7
 Date tested
 24/02/17

 Location
 TARNEIT
 Checked by
 JHF

Feature CLASS 3 Layer thickness 150 mm Time: 10:27:14

Test No		18	19	20			
Location		H	untsman Clo	se			
	-						
CI	hainage	5	55	100			
	Offset	2.0	2.0	4.0			
		north	south	north			
		of kerb	of kerb	of kerb			
Approximate depth from F.S.L.	т						
Measurement depth	mm	125	125	125			
Field wet density	t/m³	2.41	2.36	2.41			
Field dry density	t/m³	2.25	2.24	2.29			
Field moisture content	%	7.0	5.5	5.5		T	
Date of assignment			20mm	Class 2 M	/O \\\\\ \maketa	\/olo	
Material source and location Compactive effort Maximum Dry Density Optimum Moisture Content	t/m³ %		20mm	Class 3 - M' MOD 2.:	IFIED 29	am Vale	
Material source and location Compactive effort Maximum Dry Density			20mm	MOD 2.:	IFIED 29	am Vale	
Material source and location Compactive effort Maximum Dry Density Optimum Moisture Content		19.0	20mm	MOD 2.:	IFIED 29	am Vale	
Material source and location Compactive effort Maximum Dry Density Optimum Moisture Content Test procedure AS 1289.5.4.1	%	19.0		MOD 2.: 8	IFIED 29	am Vale	
Material source and location 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	%		19.0	MOD 2.: 8	IFIED 29	am Vale	
Material source and location 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	-	19.0	9.0 19.0	IFIED 29	am Vale	
Material source and location 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	mm wet dry	-	19.0	9.0 19.0	IFIED 29	am Vale	
Material source and location 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 Content	mm wet dry t/m³	- - -	19.0	19.0 - -	IFIED 29	am Vale	
Material source and location 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 Content Moisture Variation From	mm wet dry t/m³ %	- - - - 1.0%	19.0 - - - - - 2.5%	19.0 - - - - 2.5%	IFIED 29	am Vale	
Material source and location 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 Content	mm wet dry t/m³ %	- - -	19.0	19.0 - -	IFIED 29	am Vale	
Material source and location 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 Content Moisture Variation From	mm wet dry t/m³ %	- - - - 1.0%	19.0 - - - - - 2.5%	19.0 - - - - 2.5%	IFIED 29	am Vale	



July Jo



 CIVIL GEOTECHNICAL SERVICES
 Report No
 17047/R006

 6 - 8 Rose Avenue, Croydon, Vic 3136
 Date Issued
 11/05/17

 Client
 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)
 Tested by
 JB

 Project
 HAVEN ESTATE - STAGE 7
 Date tested
 03/05/17

 Location
 TARNEIT
 Checked by
 JHF

Feature CLASS 2 Layer thickness 130 mm Time: 09:30:12

Test No		21	22	23	24	25	26
Location				Sidon	Circuit		
	Chainage	50	100	150	200	250	300
	Offset	1.4	1.4	1.4	1.4	1.4	1.4
		east	west	north	south	west	east
		of kerb	of kerb	of kerb	of kerb	of kerb	of kerb
Approximate depth from F.S.L.	т						
Measurement depth	mm	100	100	100	100	100	100
Field wet density	t/m³	2.41	2.47	2.45	2.39	2.46	2.46
Field dry density	t/m³	2.25	2.30	2.28	2.24	2.28	2.27
Field moisture content	%	7.0	7.0	7.0	6.5	7.5	8.0
Compactive effort Maximum Dry Density	20mm Class 2 - MVQ, Wyndham Vale MODIFIED 2.29						
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	-	-	-	-	-	-
	t/m³	_	-	_	-	-	_
Adjusted Maximum Dry Density	VIII-						
•		-	-	-	-	-	-
Adjusted Maximum Dry Density Adjusted Optimum Moisture Content Moisture Variation From		0.5%	0.5%	0.5%	1.0%	- 0.0%	1.0%
Adjusted Optimum Moisture Content	%	- 0.5% dry		- 0.5% dry	- 1.0% dry	- 0.0% wet	1.0% wet
Adjusted Optimum Moisture Content Moisture Variation From	%	0.070	0.5%		,	, .	,



Approved Signatory : Justin Fry



 CIVIL GEOTECHNICAL SERVICES
 Report No
 17047/R007

 6 - 8 Rose Avenue, Croydon, Vic 3136
 Date Issued
 11/05/17

 Client
 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)
 Tested by
 JB

 Project
 HAVEN ESTATE - STAGE 7
 Date tested
 03/05/17

 Location
 TARNEIT
 Checked by
 JHF

Feature CLASS 2 Layer thickness 130 mm Time: 10:30:44

Test No		27	28				
Location		Huntsma	an Close				
			1	4			
	Chainage	40	90				
	Offset	1.4	1.4				
		north	south				
		of kerb	of kerb				
Approximate depth from F.S.L.	m						
Measurement depth	mm	100	100				
Field wet density	t/m³	2.49	2.45				
Field dry density	t/m³	2.31	2.27				
Field moisture content	%	7.5	8.0				
Compactive effort Maximum Dry Density Optimum Moisture Content	t/m³ %			n Class 2 - M\ MODI 2.2 7.	FIED 29		
Test procedure AS 1289.5.4.1			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/m³	-	-				
Adjusted Optimum Moisture Conte	ent %	-	-				
Mariatana Mariatian Fran		0.00/	0.50/			1	
Moisture Variation From		0.0%	0.5%				
Optimum Moisture Cont	tent	wet	wet			<u> </u>	
		102.0	106 F	1		1	1
Moisture Ratio (R _m)	%	103.0	106.5				



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