

COPYRIGHT NOTICE

This geotechnical log and its associated data (the Document) is licensed by McConnell Dowell under the [Creative Commons Attribution 4.0 Licence](#) (CC BY 4.0). When reusing the Document, in whole or in part, please attribute as follows: "(c) McConnell Dowell 2026, licensed under the CC BY 4.0 Licence, prepared by Golder Associates". This licence does not apply to logos or trademarks.

LIMITATION OF LIABILITY

The CC BY 4.0 Licence contains a comprehensive Disclaimer of Warranties and Limitation of Liability. In addition, please note that this Document was prepared for McConnell Dowell use only. Reuse of the Document by anyone for any other purpose could result in error and/or loss. You should obtain professional advice before making decisions based on the contents of the Document.

When reproducing any part of this Document, you must also reproduce this limitation of liability notice in addition to the italicised attribution statement above.

Retrieved from the Queensland Geotechnical Database <http://qgd.org.au/>



REPORT OF BOREHOLE: BH237

SHEET: 1 OF 3

DRILL RIG: FD500

CONTRACTOR: Foundril Pty Ltd

LOGGED: WJH DATE: 29/8/11

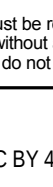
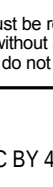
CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82343.6 m E 61281.4 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 15.67 m DATUM: AHD

LOCATION: Zone 2 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 17.00 m

Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USC SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
ADV			0	15.67	SPT 1.00-1.45 m 11, 7, 5 N=12				FILL: Sandy CLAY high plasticity, brown, trace fine to medium sub-angular gravel	D - M	F	
			1									
M			2	2.00 13.67	SPT 2.50-2.95 m 1, 1, 3 N=4				Silty SAND fine grained, sub-rounded, dark grey	M	L	
			2.50 13.17									
RT			3		SPT 4.00-4.45 m 3, 1, 7 N=8				FILL: CLAY high plasticity, dark grey, with some fine grained gravel, plastic and wood	M - W	S - F	
			4									
H			5		SPT 5.50-5.95 m 2, 3, 5 N=8				FILL: CLAY high plasticity, grey and red brown, trace fine grained gravel, small pieces of bricks and glass			
			5.80 9.87									
M			6		SPT 7.00-7.45 m 4, 5, 6 N=11						St	
			7									
WB			8	8.20 7.47	SPT 8.50-8.91 m 14, 24, 30/110 mm N>54			ML-MH	Clayey SILT low to high plasticity, pale grey and brown	M (>PL)		Inferred EW siltstone
			9									
			10								H	

This report of borehole must be read in conjunction with accompanying notes and abbreviations. It has been prepared for geotechnical purposes only, without attempt to assess possible contamination. Any references to potential contamination are for information only and do not necessarily indicate the presence or absence of soil or groundwater contamination.

GAP gINT FN. F01a
RL3



REPORT OF BOREHOLE: BH237

SHEET: 2 OF 3

DRILL RIG: FD500

CONTRACTOR: Foundril Pty Ltd

LOGGED: WJH DATE: 29/8/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82343.6 m E 61281.4 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 15.67 m DATUM: AHD

LOCATION: Zone 2 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 17.00 m

Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USC SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
WB	M	Groundwater not observed	10		SPT 10.00-10.39 m 19, 23, 30/90 mm N>53		ML-MH	Clayey SILT low to high plasticity, pale grey and brown		M (>PL)	H	
			11		SPT 11.50-11.75 m 13, 30/100 mm N>30							
			12		SPT 12.00-12.08 m 30/75 mm							
			13						For Continuation Refer to Sheet 3			
			14									
			15									
			16									
			17									
			18									
			19									
			20									

This report of borehole must be read in conjunction with accompanying notes and abbreviations. It has been prepared for geotechnical purposes only, without attempt to assess possible contamination. Any references to potential contamination are for information only and do not necessarily indicate the presence or absence of soil or groundwater contamination.

GAP gINT FN. F01a
RL3



REPORT OF BOREHOLE: BH237

SHEET: 3 OF 3

DRILL RIG: FD500

CONTRACTOR: Foundril Pty Ltd

LOGGED: WJH DATE: 29/8/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82343.6 m E 61281.4 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 15.67 m DATUM: AHD

LOCATION: Zone 2 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 17.00 m

Drilling						Field Material Description				Defect Information			
METHOD	WATER	TCR	RQD (SCR)	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH Is(50) MPa	DEFECT DESCRIPTION & Additional Observations		AVERAGE DEFECT SPACING (mm)	
				10									
				11									
				12	12.10		Continuation of Sheet 2						
				12.10	3.57		ARGILLACEOUS SILTSTONE	EW		12.23-12.33 m: DZ			
			100	44 (100)			fine grained, brown and mottled grey	HW		12.48 m: J, 30°, Un, Ro, Ct			
								HW		12.57 m: J, 35°, Pl, Ro			
										12.67-12.71 m: DS			
										12.86 m: J, 35°, Pl, Ro, Ct			
				13				EW		13.13-13.21 m: DZ			
			100	15 (26)						13.39-13.49 m: DZ			
										13.58 m: J, 45°, Pl, Ro, Sn-Ct			
										13.76-14.00 m: DZ			
				14				EW					
			100	22 (68)				HW		14.39 m: DB			
										14.46 m: DB			
										14.57 m: J, 35°, Pl, Ro, Sn-Ct			
										14.66 m: J, 40°, Pl, Ro, Ct			
										14.70 m: J, 40°, Pl, Ro, Ct			
				15				HW		14.77 m: CZ			
										14.83 m: FZ			
										15.45 m: J, 60°, Pl, Ro, Sn-Ct			
										15.64 m: DB			
										15.69 m: DB			
										15.70 m: J, 70°, Pl, Ro, Ct			
										15.72 m: DB			
										15.77 m: DB			
										15.96 m: J, 40°, Pl, Ro, Vr			
										16.27 m: J, 45°, Pl, Ro, Sn-Vr			
										16.33 m: J, 40°, Pl, Ro, Sn-Vr			
										16.72 m: J, 60°, Pl, Ro, Ct			
										16.85-16.93 m: DZ			
				17	17.00		END OF BOREHOLE @ 17.00 m						
					-1.33		TARGET DEPTH						
							GROUNDWATER NOT OBSERVED						
				18									
				19									
				20									

This report of borehole must be read in conjunction with accompanying notes and abbreviations. It has been prepared for geotechnical purposes only, without attempt to assess possible contamination. Any references to potential contamination are for information only and do not necessarily indicate the presence or absence of soil or groundwater contamination.

GAP gINT FN. F02a
RL3



REPORT OF PHOTOGRAPHS: BH237

CLIENT: McConnell Dowell Constructors
PROJECT: Gold Coast Rapid Transit
LOCATION: Zone 2
JOB NO: 117632047

COORDS: 82343.6 m E, 61281.4 m N
SURFACE RL: 15.67 m DATUM: AHD
INCLINATION: -90°
HOLE DEPTH: 17.00 m

DEPTH RANGE: 12.10 – 17.00 m
DRILL RIG: FD500
DRILLER: Foundril Pty Ltd
LOGGED: WJH DATE: 29/8/11
CHECKED: NK DATE: 26/9/11



12.10 – 17.00 m



REPORT OF STANDPIPE INSTALLATION: BH237

SHEET: 1 OF 1

DRILL RIG: FD500

CONTRACTOR: Foundril Pty Ltd

LOGGED: WJH DATE: 29/8/11

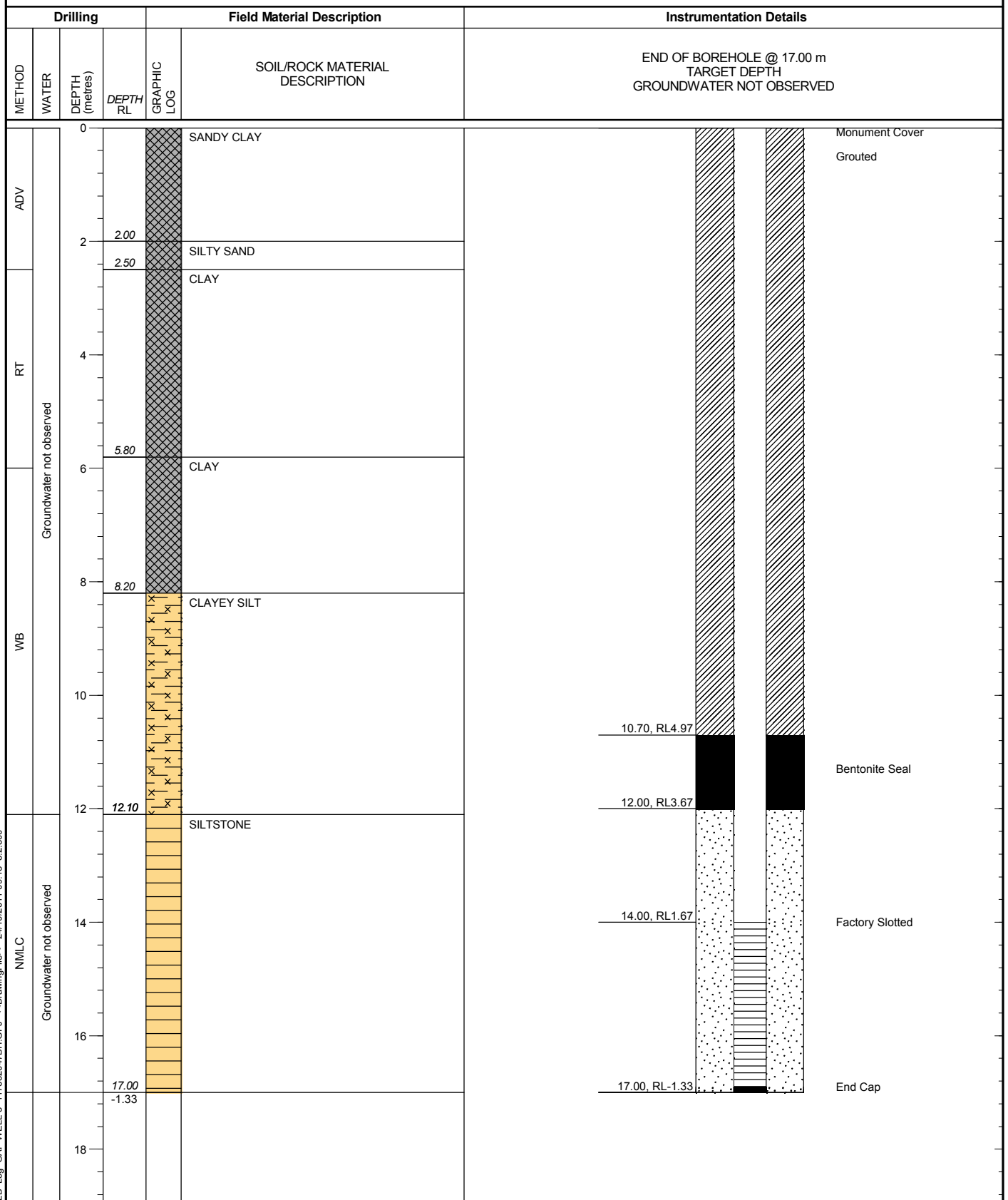
CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82343.6 m E 61281.4 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 15.67 m DATUM: AHD

LOCATION: Zone 2 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 17.00 m



This report of standpipe installation must be read in conjunction with accompanying notes and abbreviations. It has been prepared for geotechnical purposes only, without attempt to assess possible contamination. Any references to potential contamination are for information only and do not necessarily indicate the presence or absence of soil or groundwater contamination.

GAP gINT FN. F17
RL1