

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: BH403

SHEET: 1 OF 3

DRILL RIG: Fox B40

CONTRACTOR: Schneider Drilling Pty Ltd

LOGGED: FHH DATE: 20/8/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 85390.3 m E 60405.2 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: -2.20 m DATUM: AHD

LOCATION: Zone 4 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 11.88 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	STRUCTURE AND ADDITIONAL OBSERVATIONS
RT	L		0	-2.20			SW	SAND fine to medium grained, dark grey and yellow brown, trace low plasticity dark brown clay, wet, loose		W	L
	M-H		1	1.20 -3.40	SPT 1.30-1.41 m 30/110 mm			ARGILITE fine grained, pale grey to pale green grey, distinctly weathered, very low to low strength For Continuation Refer to Sheet 2			
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			10								

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: BH403

SHEET: 2 OF 3

DRILL RIG: Fox B40

CONTRACTOR: Schneider Drilling Pty Ltd

LOGGED: FHH DATE: 20/8/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 85390.3 m E 60405.2 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: -2.20 m DATUM: AHD

LOCATION: Zone 4 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 11.88 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 $I_{s(50)}$ MPa	DEFECT DESCRIPTION & Additional Observations			AVERAGE DEFECT SPACING (mm)						
									EL 0.03 VL 0.01 L 0.1 M 0.3 H 1 VH 3 EH 10				10	30	100	300	1000	3000	
				0															
				1															
				1.40			Continuation of Sheet 1												
				-3.60			ARGILLITE fine grained, green grey, some pale grey and dark grey clasts (?), highly fractured	MW SW			1.40-1.95 m: core is too fractured for detailed defect description								
		66	0	1.95			ARGILLITE fine grained, dark grey and pale green grey, some argillite gravel sized in clayey sand matrix	EW			1.95: extremely weathered argillite smells like organics / peat, same consistency								
				2.13															
				-4.33			CORE LOSS												
				2.50															
				-4.70			ARGILLITE fine grained, dark grey and pale green pale grey, extremely weathered, vey low strength												
				3.00															
				-5.20			ARGILLITE fine to medium grained, green grey to dark green grey, with pale grey and dark grey clast (?) (2 -10 mm), some quartz veins	MW SW			3.03 m: DB 3.15 m: J, 70°, Pl-Un, Ro, Sn, FeO 3.32 m: J, 50°, Pl, Sn, FeO 3.36-3.46 m: SZ, 40°, Pl, Ro, Sn, FeO, fragmented rock pieces (2-20 mm) 3.56 m: V, 30°, 1 mm, quartz								
				3.90															
				-6.10			becoming grey below 3.90 m depth	SW			3.84 m: DB 3.90 m: DB 4.07 m: DB 4.12 m: J, 65°, Pl, Ro, Sn, FeO 4.22 m: J, 20°, Pl, Ro, Cn								
		100	75								4.64 m: DB								
				5							5.17 m: J, 60°, Un, Ro, Cn, possible drilling break 5.37 m: J, 50°, Un, Ro, Cn, possible drilling break								
				6							5.62 m: J, 50°, Pl-Un, Ro, Cn 5.75 m: J, 35°, Pl, Sm, Cn 5.95 m: V, 80°, 1 mm, quartz								
				7							6.62 m: J, 60°, Pl, Sm, Cn 6.90 m: J, 60°, Pl, Ro, Cn								
				8							7.70 m: DB 7.95 m: J, 30°, Pl, Ro, Cn 7.98 m: DB								
		100	89								8.30 m: DB 8.34 m: DB 8.52-8.60 m: V, 20°, 80 mm, quartz 8.69 m: V, 60°, 8 mm, quartz 8.80 m: DB								
				8.53															
				-10.73			becoming green grey, no more clasts below 8.53 m depth				9.31 m: J, 30°, Pl, Cn 9.40 m: V, 60°, 20 mm, quartz 9.45 m: V, 60°, 10 mm, quartz 9.55 m: V, 55°, 10 mm, quartz 9.77 m: V, 60°, 8 mm, quartz								
				9															
		100	65																
				10															

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 BOREHOLE: BH403

SHEET: 3 OF 3

DRILL RIG: Fox B40

CONTRACTOR: Schneider Drilling Pty Ltd

LOGGED: FHH DATE: 20/8/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 85390.3 m E 60405.2 m N GCCC
PROJECT: Gold Coast Rapid Transit SURFACE RL: -2.20 m DATUM: AHD
LOCATION: Zone 4 INCLINATION: -90°
JOB NO: 117632047 HOLE DEPTH: 11.88 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)	
NMLC		100	65	10			ARGILLITE fine to medium grained, green grey to dark green grey, with pale grey and dark grey clast (?) (2 -10 mm), some quartz veins	SW		9.92 m: V, 30°, 5 mm, quartz 10.01 m: J, 30°, Un, Ro, Cn 10.12 m: V, 40°, 5 mm, quartz 10.17 m: DB 10.25 m: V, 40°, 15 mm, quartz 10.34 m: J, 70°, Pl, Ro, Cn 10.39 m: V, 50°, 8 mm, quartz 10.46 m: J, 5°, Pl, Ro, Cn 10.47 m: V, 80°, 10 mm, quartz 10.51 m: V, 70°, 2 mm, quartz 10.56 m: V, 70°, 2 mm, quartz 10.82 m: V, 30°, 30 mm, quartz 11.06 m: DB 11.15 m: J, 60°, Pl, Sm-Ro, Cn 11.23 m: J, 70°, Pl, Ro, Cn 11.33 m: V, 20°, 10 mm, quartz 11.38 m: DB 11.78 m: DB				
		100	65	11										
				11.66			numerous quartz veins below 11.66 m depth							
				-13.86										
				11.88										
				-14.08										
				12			END OF BOREHOLE @ 11.88 m TARGET DEPTH DRILLED OVER WATER							
				13										
				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. F02a
RL3



REPORT OF CORE PHOTOGRAPHS: BH403

CLIENT: McConnell Dowell Pty Ltd
PROJECT: Gold Coast Rapid Transit
LOCATION: Zone 4
JOB NO: 117632047

COORDS: 85390.32 m E 60405.24 m N
SURFACE RL: -2.2 m DATUM: AHD
INCLINATION: -90°
HOLE DEPTH: 11.88 m

DEPTH RANGE: 1.40 – 11.88 m
DRILL RIG: FOX B40
DRILLER: Schneider Drilling Pty Ltd
LOGGED: FHH DATE: 19/08/11
CHECKED: NK DATE: 15/9/11



1.40 – 11.88 m