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REPORT OF BOREHOLE: BH408

SHEET: 1 OF 3

DRILL RIG: Fox B40

CONTRACTOR: Schneider Drilling Pty Ltd

LOGGED: BC DATE: 26/8/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 85430.5 m E 60249.5 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: -3.20 m DATUM: AHD

LOCATION: Zone 4 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 17.15 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
RT	L		0	-3.20	SPT 2.45-2.90 m 1, 1 N=1 PP =20 kPa			MH	Sandy SILT high plasticity, dark grey, fine grained sand, organic odour		VS - S	
			1									
			2									
			3									
			4									
	5		3.20 -6.40	SPT 3.95-4.40 m 4, 8, 9 N=17			SM	SAND fine to coarse grained, angular, pale brown	MD			
	6											
	7											
	8											
	9											
10	4.80 -8.00 5.00	SPT 5.45-5.72 m 16, 30/120 mm N>30			ML	Silty CLAY medium plasticity, pale grey to pale green	F - St					
11												
12												
13												
14												
15	-8.20				CL-CI	Silty CLAY low to medium plasticity, with relict rock structure	D - M St - VSt					
16												
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20								For Continuation Refer to Sheet 2				
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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: BH408

SHEET: 3 OF 3

DRILL RIG: Fox B40

CONTRACTOR: Schneider Drilling Pty Ltd

LOGGED: BC DATE: 26/8/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 85430.5 m E 60249.5 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: -3.20 m DATUM: AHD

LOCATION: Zone 4 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 17.15 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)
NMLC		100	31 (59)	10			ARGILLITE fine grained, pale grey, with quartz veining	SW FR		8.60 m: J, 70°, Un, Ro, Sn 8.70 m: J, 70°, Un, Ro, Sn, incipient 8.76 m: J, 70°, Pl, Ro, Sn 8.86 m: J, 70°, Pl, Ro, Sn 8.92 m: J, 70°, Pl, Ro, Sn 8.96 m: J, 50°, Un, Ro, Sn 9.00 m: HB 9.05 m: J, 80°, Un, Ro, Sn 9.10 m: J, 45°, Un, Ro, Sn 9.20 m: J, 45°, Un, Ro, Sn 9.30 m: J, 10°, Pl, Ro, Sn 9.34 m: J, 80°, Un, Ro, Sn 9.83 m: J, 45°, Un, Ro, Cn 9.98 m: V, 0° 10.00 m: DB 10.10-10.30 m: J, 80°, Un, Ro, Cn 10.55 m: V, 10°, 15 mm, quartz 10.60 m: V, 10°, 20 mm 10.66 m: DB 10.70 m: V, 10°, 3 mm 10.85 m: J, 45°, Pl, Ro, Cn 10.90 m: V, 80°, 10 mm 11.00 m: HB 11.05 m: J, 80°, Un, Ro, Cn 11.08-11.13 m: DB, recovered non intact possibly due to quartz vein and start of drill run 11.20-11.23 m: recovered non intact possible drilling break with quartz 11.32 m: J, 45°, Pl, Ro, Cn 11.42 m: J, 5°, Pl, Ro, Cn 11.54 m: J, 5°, Un, Ro, Ct 11.55 m: J, 45°, Pl, Ro, Ct 11.60 m: J, 6°, Pl, Ro, Ct 11.72 m: J, 5°, Un, Ro, Cn 11.74 m: J, 45°, Un, Ro, Ct 11.80 m: J, 80°, Ro, Sn-Ct, dark brown 11.98 m: J, 80°, Un, Ro, Cn 12.00 m: HB 12.14 m: J, 80°, Un, Sm, Cn 12.30 m: J, 70°, Un, Ro, Ct, 2 mm, quartz 12.43-12.50 m: J, 70°, Un, Ro, Ct, quartz 12.58 m: J, 5°, Un, Ro, Ct 12.80 m: DB 13.00 m: HB 13.30 m: J, 5°, Un, Ro, Ct 13.40 m: J, 60°, Ro, Ct 13.43 m: J, 5°, Pl, Ro, Ct 13.60 m: V, 80°, 1 mm 13.78 m: J, 5°, Pl, Ro, Cn 13.82 m: J, 5°, Un, Ro, Ct, 2 mm 13.95-14.00 m: HB 14.08 m: J, 80°, Un, Ro, Cn 14.10 m: J, 45°, Un, Ro, Cn 14.18 m: J, 0°, Un, Ro, Cn 14.20-14.74 m: J, 85°, Un, Ro, Cn 14.63 m: J, Un, Ro, Cn 14.85-15.00 m: Un, Ro, Cn 15.01 m: HB 15.20-15.40 m: V, 70°, Pl 15.52 m: J, 35°, Pl, Ro, Cn 15.62 m: J, 35°, Pl, Ro, Cn 15.90 m: J, 10°, Un, Ro, Cn 15.95 m: J, 30°, Pl, Sm, Cn 16.30-16.60 m: V, 80°, Un 16.95 m: J, 45°, Pl, Ro, Cn		
		100	86 (86)	11								
				12								
		100	57 (67)	13								
				14								
				15								
		99	61 (71)	16	16.10 -19.30		to 16.25 m with dark grey banding and associated close fracturing					
				17	17.15 -20.35		END OF BOREHOLE @ 17.15 m DRILLED OVER WATER					
				18								
				19								
				20								

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GAP gINT FN. F02a
RL3



REPORT OF PHOTOGRAPHS: BH408

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

COORDS: 85430.5 m E 60249.5 m N
SURFACE RL: -3.20 m DATUM: AHD
INCLINATION: -90°
HOLE DEPTH: 17.15m

DEPTH RANGE: 5.70 – 17.15m
DRILL RIG: Fox B40
DRILLER: Schneider Drilling Pty Ltd
LOGGED: BC DATE: 26/8/11
CHECKED: NK DATE: 25/9/11



5.70 – 17.15 m