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REPORT OF BOREHOLE: BH2D12

SHEET: 1 OF 3

DRILL RIG: FD500

CONTRACTOR: Foundril Pty Ltd

LOGGED: FHH DATE: 13/8/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82474.5 m E 61380.3 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 16.01 m DATUM: AHD

LOCATION: Zone 2 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 16.89 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
ADT	M-H		0	15.96	SPT 1.00-1.36 m 9, 9, 30/60 mm N>39				ASPHALT dark grey	D	D	
	L-M		0.50					FILL: Gravelly SAND fine to medium grained, dark yellow brown to dark brown, medium to coarse sub-angular gravel, trace low plasticity clay, dry, dense				
	M		15.51					FILL: Sandy CLAY medium plasticity, dark grey, fine grained sand, some grey concrete in places, moist, firm to stiff	M	F - St		
	H		1	1.35					concrete between 1.35 m and 1.50 m depth			
			14.66									
	L-M		2	2.00					timber, grass, plastic, concrete in dark grey clayey matrix		Strong odour of stagnant water / contamination	
	M		14.01									
			3					SPT 2.50-2.61 m 30/110 mm HB				
			4					SPT 4.00-4.45 m 3, 3, 4 N=7				
			5									
RT	L		6	5.40	U50 7.00-7.45 m PP =200 kPa				Sandy CLAY medium plasticity, yellow brown, fine grained sand, moist, soft		S	
				10.61					pale grey and red brown, with some medium sub-angular gravel, moist, very stiff			
			7	6.20					Silty CLAY medium to high plasticity, pale grey and red brown, trace fine grained sand, moist, very stiff			
			9.81									
			8	6.80								
			9.21									
			9	8.40								
			7.61						Sandy Silty CLAY medium to high plasticity, pale grey red brown and orange brown, medium grained sand, relict of rock structure in places, moist, very stiff			
			10	9.30								
				6.71								
			10.00									

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: BH2D12

SHEET: 2 OF 3

DRILL RIG: FD500

CONTRACTOR: Foundril Pty Ltd

LOGGED: FHH DATE: 13/8/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82474.5 m E 61380.3 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 16.01 m DATUM: AHD

LOCATION: Zone 2 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 16.89 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		10	6.01	SPT 10.00-10.45 m 7, 16, 17 N=33		CH		Silty CLAY high plasticity, pale grey and orange brown, trace fine sand in places, relict of rock and joint structure, moist, hard interbedded with pale grey medium to coarse grained, extremely weathered, extremely low strength clayey sandstone between approximately 10.0 and 11.0 m depth	M	H		
			11	11.50 4.51	SPT 11.50-11.95 m 15, 14, 17 N=31 PP =350 kPa	with some dark orange brown low to medium strength gravel sized sandstone below approximately 11.5 m depth							
			12						For Continuation Refer to Sheet 3				
			13										
			14										
			15										
			16										
			17										
			18										
			19										
			20										

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GAP gINT FN. F01a
RL3



REPORT OF BOREHOLE: BH2D12

SHEET: 3 OF 3
DRILL RIG: FD500
CONTRACTOR: Foundril Pty Ltd
LOGGED: FHH DATE: 13/8/11
CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82474.5 m E 61380.3 m N GCCC
PROJECT: Gold Coast Rapid Transit SURFACE RL: 16.01 m DATUM: AHD
LOCATION: Zone 2 INCLINATION: -90°
JOB NO: 117632047 HOLE DEPTH: 16.89 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	12.00 4.01		Continuation of Sheet 2							
			100	0			SANDSTONE INTERBEDDED WITH MUDSTONE medium grained, yellow red and orange brown, interbedded with pale grey mudstone	EW						
				13										
					13.24 2.77		CORE LOSS							
					13.60 2.41 13.82 2.19		SANDSTONE medium grained, dark orange brown	EW						
			74	0			fine grained, pale grey and orange brown, bedding parting dipping at 60°, numerous iron stained joints dipping at 60°	EW HW EW						
				14										
					14.60 1.41 14.83 1.18		medium grained, pale orange brown to dark orange brown, numerous dark orange brown iron stained healed joints dipping at 40-50°							
				15			interbedded with pale grey mudstone between 14.83 m and 14.87 m depth							
					15.17 0.64 15.37		interbedded with pale grey mudstone between 15.17 m and 15.29 m depth							
			100	0			interbedded with pale grey mudstone between 15.37 m and 15.39 m depth							
				16										
					16.34 -0.33		interbedded with pale grey mudstone between 16.34 m and 16.45 m depth							
			100	0										
				17	16.89 -0.88		END OF BOREHOLE @ 16.89 m TARGET DEPTH GROUNDWATER NOT ENCOUNTERED Grouted with cement / bentonite slurry to the bottom of the fill Plugged upon completion							
				18										
				19										
				20										

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GAP gINT FN. F02a
RL3

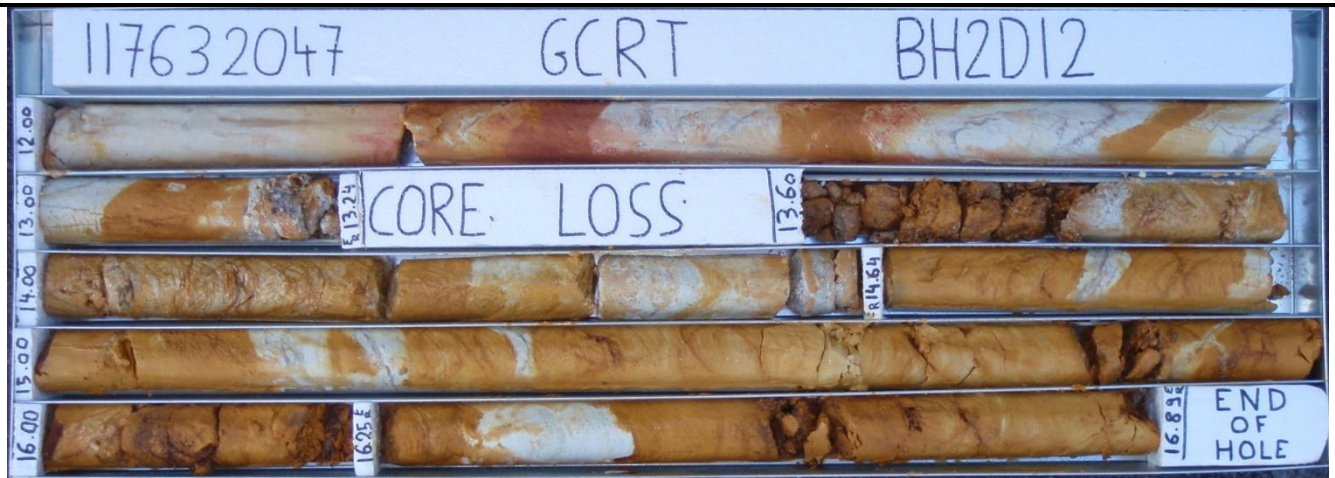


REPORT OF CORE PHOTOGRAPHS: BH2D12

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

COORDS: 82474.49 m E, 61380.27 m N MGA94 56
SURFACE RL: 16.01 DATUM: AHD
INCLINATION: -90°
HOLE DEPTH: 16.89 m

DEPTH RANGE: 12.00 – 16.89 m
DRILL RIG: FD500
DRILLER: Foundrill Pty Ltd
LOGGED: FHH DATE: 13/08/11
CHECKED: NK DATE: 26/9/11



12.05 – 16.89 m