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REPORT OF BOREHOLE: BH2D13

SHEET: 1 OF 3

DRILL RIG: FD500

CONTRACTOR: Foundril Pty Ltd

LOGGED: FHH DATE: 12/8/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82519.9 m E 61349.6 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 16.53 m DATUM: AHD

LOCATION: Zone 2 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 13.56 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	STRUCTURE AND ADDITIONAL OBSERVATIONS	
ADT			0	16.53	SPT 1.00-1.45 m 11, 9, 15 N=24 PP =400 kPa			GP	Sandy GRAVEL fine to coarse grained, sub-angular to angular, dark grey, trace silt, dry, medium dense Silty CLAY high plasticity, red brown, with some fine to medium sub-angular gravel, dry to moist, firm to stiff	D	MD			
			0.20	16.33				CH						
			1	1.70				SC		Clayey SAND medium to coarse grained, pale yellow brown and grey, trace fine sub-rounded gravel, dry to moist, medium dense			F - St	
			2	14.83										
			3	2.65				CH		Silty CLAY high plasticity, pale grey and red brown, moist, very stiff			D - M	
			4	3.70				CH		Silty CLAY high plasticity, pale grey orange brown and red brown, with relict of rock structure in some places, moist, very stiff			MD	
			5	5.30				CH		Silty CLAY (EW MUDSTONE) high plasticity, pale grey orange grey and red brown, trace fine to medium grained sand, relict of rock structure, interbedded in places with extremely low to very low strength mudstone / sandstone in places, moist, hard			St	
			6	11.23										
			7											
			8											
RD			9		SPT 7.00-7.45 m 13, 15, 19 N=34				For Continuation Refer to Sheet 2					
			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: BH2D13

SHEET: 2 OF 3
DRILL RIG: FD500
CONTRACTOR: Foundril Pty Ltd
LOGGED: FHH DATE: 12/8/11
CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82519.9 m E 61349.6 m N GCCC
PROJECT: Gold Coast Rapid Transit SURFACE RL: 16.53 m DATUM: AHD
LOCATION: Zone 2 INCLINATION: -90°
JOB NO: 117632047 HOLE DEPTH: 13.56 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		FRACTURE FREQUENCY (Defects per unit metre length)
				0								5 10 15 20 25 30
				1								
				2								
				3								
				4								
				5								
				6								
				7								
				8								
				9	9.00 7.53		Continuation of Sheet 1					
NMLC		100	0				MUDSTONE fine grained, pale grey orange brown and pale red brown, interbedded in places with decomposed seams and zones of pale grey silty clay, numerous healed joints	DW RS DW RS DW		9.25-9.35 m: DZ, pale grey silty clay 9.45-9.56 m: DZ, pale grey silty clay 9.68 m: J, 90°, Pl, Sm, Cn		
				10								

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GAP gINT FN. F02b
RL3

GAP 8.03 LIB.GLB Log GAP CORED BOREHOLE 117632047BH.GPJ <<DrawingFile>> 06/10/2011 11:07 8.2.800



REPORT OF BOREHOLE: BH2D13

SHEET: 3 OF 3
DRILL RIG: FD500
CONTRACTOR: Foundril Pty Ltd
LOGGED: FHH DATE: 12/8/11
CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82519.9 m E 61349.6 m N GCCC
PROJECT: Gold Coast Rapid Transit SURFACE RL: 16.53 m DATUM: AHD
LOCATION: Zone 2 INCLINATION: -90°
JOB NO: 117632047 HOLE DEPTH: 13.56 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		FRACTURE FREQUENCY (Defects per unit metre length)
								EL 0.03 V 0.1 L 0.1 M 0.3 H 1 VH 3 EH 10				5 10 15 20 25 30
NMLC	Groundwater not encountered	100	0	10				EW		10.10-10.25 m: DS, pale grey silty clay		
				10.45				RS		10.31 m: J, 80°, Un, Ro, Sn		
				6.08			SANDSTONE medium grained, pale orange brown, bedding parting dipping at 40°, numerous dark orange brown healed joints	EW		10.35 m: J, 50°, Pl, Ro, Sn, FeO		
		100	64	11				RS				
				11.17			interbedded with pale grey fine grained MUDSTONE between 11.17 m and 11.50 m depth	DW				
				5.36						11.94 m: J, 35°, Pl, Sm, Sn, FeO		
				12						12.44 m: J, 10°, Pl		
										12.45 m: J, 70°, Pl		
		100	0	13								
				13.56			END OF BOREHOLE @ 13.56 m TARGET DEPTH GROUNDWATER NOT ENCOUNTERED Plugged upon completion			13.43 m: J, 5°, Pl		
				2.97						13.54 m: J, 40°, Pl, Ro		
				14								
				15								
				16								
				17								
				18								
				19								
				20								

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GAP gINT FN. F02b
RL3



REPORT OF CORE PHOTOGRAPHS: BH2D13

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

COORDS: 82519.95 m E, 61349.55 m N MGA95 56
SURFACE RL: 16.53 DATUM: AHD
INCLINATION: -90°
HOLE DEPTH: 13.56 m

DEPTH RANGE: 9.00 – 13.56 m
DRILL RIG: FD500
DRILLER: Foundril Pty Ltd
LOGGED: FHH DATE: 12/08/11
CHECKED: NK DATE: 26/9/11



9.00 – 13.56 m