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REPORT OF BOREHOLE: BH2D08

SHEET: 1 OF 3

DRILL RIG: Hydrapower Scout

CONTRACTOR: GeoDrill Pty Ltd

LOGGED: WJH DATE: 18/8/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82435.7 m E 61474.7 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 9.46 m DATUM: AHD

LOCATION: Zone 2 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 14.70 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	0.15	SPT 1.00-1.45 m 1, 2, 2 N=4		CH	TOPSOIL: CLAY	M (>PL)	S - F		
				9.31			CH	high plasticity, dark brown, trace rootlets				
								CLAY				
								high plasticity, brown, with some fine grained sand				
			1									
L-M			2	2.00	U50 2.50-2.90 m		SC	Clayey SAND	M - W	L - MD		
				7.46				fine grained, sub-rounded, dark grey				
WB			3	2.90	SPT 4.00-4.45 m 30, 25, 15 N=40			100 m thick layer of fine grained quartz gravels	M - W	L - MD		
				6.56								
M			4	3.80	SPT 5.50-5.95 m 17, 12, 10 N=22		ML	Sandy SILT		VSt		
				5.66				low plasticity, grey				
			5	5.00	SPT 7.00-7.45 m 5, 6, 7 N=13		SC	Clayey SAND	M	MD		
				4.46				fine grained, sub-rounded, grey				
			6	6.60	SPT 8.50-8.95 m 7, 14, 15 N=29		CH	Sandy CLAY		St - VSt		
				2.86				high plasticity, grey				
			7	8.30	SPT 9.00-9.45 m 7, 14, 15 N=29		SC	Clayey SAND		MD - D		
				1.16				fine grained, sub-rounded, grey, with some fine to medium grained sub-angular quartz gravels				
			8	9.70	SPT 10.00-10.45 m 7, 14, 15 N=29		CH	Silty CLAY		H		
				-0.24				low to medium plasticity, pale grey				

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: BH2D08

SHEET: 2 OF 3

DRILL RIG: Hydrapower Scout

CONTRACTOR: GeoDrill Pty Ltd

LOGGED: WJH DATE: 18/8/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82435.7 m E 61474.7 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 9.46 m DATUM: AHD

LOCATION: Zone 2 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 14.70 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	10.30 -0.84	SPT 10.00-10.45 m 8, 14, 24 N=38		CH		Silty CLAY low to medium plasticity, pale grey brown		M	H	
			11										
			12		SPT 11.50-11.90 m 30, 0				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: BH2D08

SHEET: 3 OF 3

DRILL RIG: Hydrapower Scout

CONTRACTOR: GeoDrill Pty Ltd

LOGGED: WJH DATE: 18/8/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82435.7 m E 61474.7 m N GCCC
PROJECT: Gold Coast Rapid Transit SURFACE RL: 9.46 m DATUM: AHD
LOCATION: Zone 2 INCLINATION: -90°
JOB NO: 117632047 HOLE DEPTH: 14.70 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								
				11.60			Continuation of Sheet 2					
				-2.14			ARGILLACEOUS SANDSTONE	HW		11.70 m: J, 60°, Pl, Ro, Vr		
							fine to medium grained, brown with some dark grey argillaceous siltstone laminations			11.75-11.85 m: J, 30°, Pl, Ro, Vr, sp = 50 mm		
										11.87 m: J, 60°, Pl, Ro, Ct		
				12.35						12.10-12.25 m: DZ		
				12.50			CORE LOSS			12.27 m: J, 45°, Pl, Ro, Vr		
				-3.04			ARGILLACEOUS SANDSTONE			12.57 m: J, 20°, Un, Ro, Vr		
							fine to medium grained, brown, brown with some dark grey argillaceous siltstone laminations			12.65 m: J, 40°, Pl, Ro, Vr		
										12.72 m: J, 40°, Pl, Ro, Vr		
										12.82-12.90 m: DZ		
										13.17-13.23 m: DZ		
										13.18-13.55 m: J, 30°, Un, Ro, Sn, sp = 50-150 mm		
										13.26 m: J, 30°, Pl, Ro, Vr		
										13.50 m: DB, Sn		
										13.63 m: J, 40°, Pl, Ro, Sn-Vr		
										13.76 m: J, 30°, Pl, Ro, Vr		
										13.94 m: HB		
										14.08 m: J, 50°, Pl, Ro, Sn		
				14.25								
				-4.79			brown and grey					
				14.70								
				-5.24			END OF BOREHOLE @ 14.70 m					
							TARGET DEPTH					
							GROUNDWATER NOT OBSERVED					
				15								
				16								
				17								
				18								
				19								
				20								

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GAP gINT FN. F02a
RL3



REPORT OF CORE PHOTOGRAPHS: BH2D08

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

COORDS: 82435.74m E, 61474.74 m N
SURFACE RL: 9.46 DATUM: AHD
INCLINATION: -90°
HOLE DEPTH: 14.70 m

DEPTH RANGE: 11.60 – 14.70 m
DRILL RIG: Hydrapower Scout
DRILLER: Geodrill Pty Ltd
LOGGED: WJH DATE: 18/08/11
CHECKED: NK DATE: 26/09/11



11.60 – 14.70 m