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REPORT OF BOREHOLE: BH2D14

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: 82495.0 m E 61322.9 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 16.74 m DATUM: AHD

LOCATION: Zone 2 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 13.76 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			0	16.74	SPT 1.00-1.45 m 3, 4, 4 N=8 PP =250 kPa		ML	Sandy SILT low plasticity, dark brown, fine to medium grained sand, moist, firm to stiff	M	F - St		
			0.30	16.44			CH	Silty CLAY high plasticity, red brown and yellow brown, trace fine sub-angular gravel, moist, stiff		St		
			1	1.80								
			2	14.94			SW	Silty SAND fine to medium grained, dark brown, low liquid limit silt, grading to sandy silt in places, dry to moist, medium dense to dense		D - M		MD - D
			3	14.34			CH	Silty CLAY high plasticity, yellow brown, with some fine sub-angular gravel, moist, very stiff				VSt
			4	13.34			CH	Silty CLAY (EW MUDSTONE) high plasticity, pale grey and orange brown, trace fine grained sand, relict of rock structure and relict of iron stained joints, moist, hard				H
			5									
			6	6.00				MUDSTONE fine grained, pale grey and orange brown, extremely weathered, extremely low strength		M		
			7	10.74								
			8									
RD					SPT 2.50-2.95 m 6, 12, 14 N=26 PP =350 kPa							
			3	3.40	13.34							
					SPT 4.00-4.44 m 10, 13, 30/140 mm N>43							
			5									
					SPT 5.50-5.95 m 15, 18, 23 N=41							
			6	6.00	10.74							
					SPT 7.00-7.39 m 17, 30, 30/90 mm N>60							
			8									
					SPT 8.50-8.76 m 20, 30/110 mm N>30							
			9									
For Continuation Refer to Sheet 2												

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: BH2D14

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: 82495.0 m E 61322.9 m N GCCC
PROJECT: Gold Coast Rapid Transit SURFACE RL: 16.74 m DATUM: AHD
LOCATION: Zone 2 INCLINATION: -90°
JOB NO: 117632047 HOLE DEPTH: 13.76 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 VL 0.01 L 0.1 M 0.3 H 1 VH 3 EH 10				5	10	15	20	25	30
				0														
				1														
				2														
				3														
				4														
				5														
				6														
				7														
				8														
				9	8.80 7.94 9.00 7.74 9.36 7.38		Continuation of Sheet 1 MUDSTONE fine grained, pale grey and orange brown, pale yellow red in places, bedding parting dipping at 40°, in places with fragments of pale grey chert / quartz / in vein like structures dipping at 20-40° grading to residual soil between 9.0 m and 9.2 m depth grading to residual soil between 9.36 and 9.58 m depth	EW DW DW EW DW		8.82 m: J, 60°, Pl, Sm 8.90: fracture frequency not relevant as rock is extremely weathered								
NMLC		100	0	10														

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GAP gINT FN. F02b
RL3



REPORT OF BOREHOLE: BH2D14

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: 82495.0 m E 61322.9 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 16.74 m DATUM: AHD

LOCATION: Zone 2 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 13.76 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 VL 0.01 L 0.1 M 0.3 H 1 VH 3 EH 10					5	10	15	20	25	30			
NMLC	Groundwater not encountered	58	0	10	10.16		MUDSTONE	EW		10.63 m: J, 20°, Pl, Sm											
				6.58	fine grained, pale grey and orange brown		HW														
				10.40	grading to silty clay (residual soil) between 10.25 m / and 10.32 m depth		RS														
				6.38	grading to silty clay (residual soil) between 10.36 m / and 10.46 m depth		EW														
				10.61	grading to silty clay (residual soil) below 10.61 m depth		RS														
				6.13	CORE LOSS		EW														
		100	0	11	10.82		MUDSTONE	RS								12.46 m: J, 25°, Pl, Ro, Sn, FeO, healed 12.50 m: J, 80°, Pl, Ro, Sn, FeO, healed					
				5.92	fine grained, pale grey and pale red brown		EW														
				11.41	grading to silty clay (residual soil) below 11.96 m depth		RS														
				5.33	becoming pale grey and orange brown below 12.31 m depth		EW														
				11.96	grading to silty clay (residual soil) between 12.66 m / and 12.75 m depth		RS														
				4.78	grading to silty clay (residual soil) between 13.10 m / and 13.32 m depth		EW														
100	0	12	12.31			12.92 m: J, 75°, Pl, Ro, Sn, FeO, healed															
		4.43																			
		12.66																			
		4.08																			
		13.10																			
		3.64																			
				13	13.76								END OF BOREHOLE @ 13.76 m	RS		13.44 m: J, 50°, Pl, Ro, Sn, FeO, healed					
				2.98	TARGET DEPTH								EW								
					GROUNDWATER NOT ENCOUNTERED								RS								
					Plugged upon completion								EW								

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GAP gINT FN. F02b
RL3



REPORT OF CORE PHOTOGRAPHS: BH2D14

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

COORDS: 82495.0 m E, 61322.9 m N
SURFACE RL: 16.74 DATUM: AHD
INCLINATION: -90°
HOLE DEPTH: 13.76 m

DEPTH RANGE: 8.80 – 13.76 m
DRILL RIG: FD500
DRILLER: Foundril Pty Ltd
LOGGED: FHH DATE: 12/08/11
CHECKED: NK DATE: 26/9/11



8.80 – 13.76 m