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REPORT OF BOREHOLE: BH244

SHEET: 1 OF 3

DRILL RIG: FD500

CONTRACTOR: Foundril Pty Ltd

LOGGED: FHH DATE: 17/8/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82570.5 m E 61228.6 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 19.62 m DATUM: AHD

LOCATION: Zone 2 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 17.35 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	19.62	SPT 1.00-1.45 m 14, 23, 27 N=50		CI-ML	ASPHALT	St	BASECOURSE		
				0.20								
				0.30								
				19.32								
			1									
			2	2.00								
				17.62								
			3									
			4									
			5									
RD			6		SPT 2.50-2.95 m 9, 14, 23 N=37		ML	Clayey SILT low plasticity, orange brown and pale grey, trace fine to medium siliceous gravel, thinly to thickly laminated with some partings of orange brown fine sand (1 mm-6 mm)	D	St - VSt		
L			7	7.00	SPT 4.00-4.45 m 7, 16, 24 N=40 PP =500 kPa			exhibiting relic rock structure	M	H		
				12.62								
Groundwater not observed			8	7.70	SPT 5.50-5.84 m 11, 37, 13/40 mm N>50							
				11.92								
			9		SPT 7.00-7.35 m 22, 36, 14/50mm N>50							

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GAP gINT FN. F01a
RL3



REPORT OF BOREHOLE: BH244

SHEET: 2 OF 3

DRILL RIG: FD500

CONTRACTOR: Foundril Pty Ltd

LOGGED: FHH DATE: 17/8/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82570.5 m E 61228.6 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 19.62 m DATUM: AHD

LOCATION: Zone 2 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 17.35 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
RD	L		10		SPT 10.00-10.26 m 16, 30/110 mm N>30				SILTSTONE fine to coarse, medium to high plasticity, trace fine to medium angular gravel, staining, recovered as sandy gravel exhibiting extremely closely spaced (<20 mm) fissures	M	H	
			11									
			12		SPT 11.50-11.60 m 30/100 mm HB				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: BH244

SHEET: 3 OF 3
DRILL RIG: FD500
CONTRACTOR: Foundril Pty Ltd
LOGGED: FHH DATE: 17/8/11
CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82570.5 m E 61228.6 m N GCCC
PROJECT: Gold Coast Rapid Transit SURFACE RL: 19.62 m DATUM: AHD
LOCATION: Zone 2 INCLINATION: -90°
JOB NO: 117632047 HOLE DEPTH: 17.35 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)
				10								
				11								
				11.70	7.92		Continuation of Sheet 2					
			100	68 (83)			ARGILLACEOUS SILTSTONE fine to coarse grained, pale grey and orange brown, mottled with some quartz veining to 12.60 m	HW		11.75 m: FC, 10°, Un, Ro, Sn 12.00 m: FC, 10°, Un, Ro, Sn 12.04 m: FC, 0°, Pl, Sm, Sn 12.10 m: FC, 10°, Un, Ro, Sn		
				13				HW MW		12.50 m: FC, 30°, Un, Sm, Sn 12.60 m: FC, 35°, Sm, Vr, silty clay veneer 12.80 m: VO, 40°, Un, Sm, Sn 12.85 m: FC, 80°, Un, Ro, Sn 13.10 m: FC, 35°, Pl, Sm, Sn 13.25 m: FC, 0°, Un, Ro, Sn 13.35-13.42 m: 40°, pale grey silty clay zone 13.50 m: V, 35°, Pl, 3 mm 13.63 m: FC, 40°, Pl, Ro, Vr 13.75 m: FC, 40°, Pl, Sm, Vr, clay veneer 13.95 m: 40°, Pl, Sm, Vr, clay veneer 14.25 m: VO, 40°, Pl, Sm, Vr, 2 mm, clay veneer 14.50 m: FC, 0°, Pl, Ro, Vr, clay veneer 14.65 m: FC, 40°, Pl, Sm, Vr, 10 mm, clay		
			100	78 (95)						15.00 m: FC, 10°, Un, Ro, Sn 15.15 m: FC, 10°, Un, Ro, Sn		
				15						15.50 m: 40°, Pl, Ro, Sn 15.55 m: FC, 40°, Pl, Ro, Sn 15.60 m: FC, 40°, Pl, Ro, Sn 15.75 m: FC, 30°, Pl, Ro, Sn 16.00 m: FC, 40°, Pl, Ro, Sn 16.20 m: FC, 0°, Un, Ro, Sn 16.45 m: FC, 60°, Pl, Ro, Sn 16.50 m: FC, 60°, Pl, Ro, Sn 16.70 m: FC, 40°, Pl, Ro, Sn 16.80 m: FC, 40°, Pl, Sm, Sn		
			100	95 (100)			ARGILLACEOUS MUDSTONE fine grained, pale brown, with orange brown fine veining	MW SW		17.00-17.30 m: CZ, 40°, 30 mm, non intact zone between inclined fractures with clay infilling 17.15 m: FC, 70°, Un, Ro, Vr, clay veneer 17.20 m: FC, 0°, Un, Ro, Vr 17.25 m: FC, 70°, Pl, Ro, 3 mm, clay infill		
				16								
				16.85	2.77		pale brown, with dark brown banding <4 mm					
				17			dark brown					
				17.20	2.27		END OF BOREHOLE @ 17.35 m GROUNDWATER NOT OBSERVED					
				18								
				19								
				20								

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GAP gINT FN. F02b
RL3

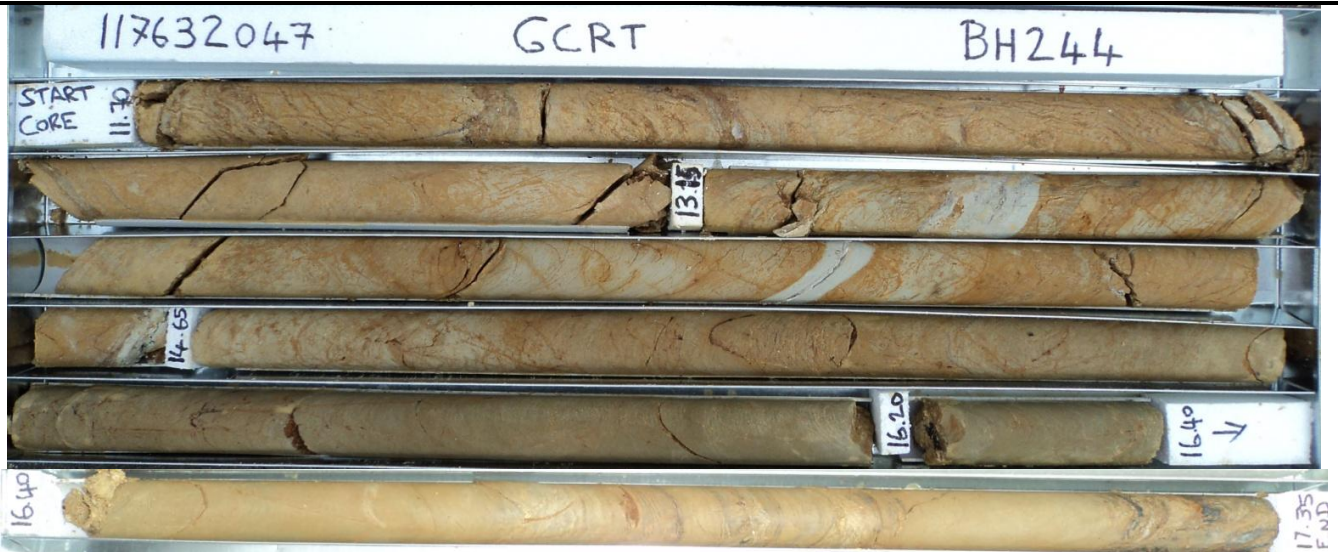


REPORT OF CORE PHOTOGRAPHS: BH244

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

COORDS: 82570.54 m E, 61228.59 m N
SURFACE RL: 17.35m DATUM: AHD
INCLINATION: -90°
HOLE DEPTH: 17.35 m

DEPTH RANGE: 11.70 – 17.35 m
DRILL RIG: FD500
DRILLER: Foundril Pty Ltd
LOGGED: FHH DATE: 17/08/11
CHECKED: NK DATE: 15/9/11



11.70 – 17.35 m