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REPORT OF BOREHOLE: BH207

SHEET: 1 OF 3

DRILL RIG: FD500

CONTRACTOR: Foundril Pty Ltd

LOGGED: WJH DATE: 27/9/11

CHECKED: NK DATE: 1/10/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 81963.18 m E 61521.12 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 14.81 m DATUM: AHD

LOCATION: Zone 2 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 20.00 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	14.81	SPT 1.00 m 20, 30/100 mm N>30		CH	Silty CLAY high plasticity, brown red brown	D	D - M					
			1	14.61											
			2												
			3												
			4	4.10				SPT 2.50 m 13, 20, 24 N=44					ML-MH	Clayey SILT low to high plasticity, pale grey and brown	Inferred EW siltstone
			5	10.71											
			6												
			7												
			8												
			9												
			10												
			11												
			12												
13															
14															
15															

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GAP gINT FN. F01a
RL3



REPORT OF BOREHOLE: BH207

SHEET: 2 OF 3

DRILL RIG: FD500

CONTRACTOR: Foundril Pty Ltd

LOGGED: WJH DATE: 27/9/11

CHECKED: NK DATE: 1/10/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 81963.18 m E 61521.12 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 14.81 m DATUM: AHD

LOCATION: Zone 2 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 20.00 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
			10		SPT 10.00-10.05 m 30/45 mm N=R				For Continuation Refer to Sheet 3			
			11									
			12									
			13									
			14									
			15									
			16									
			17									
			18									
			19									
			20									

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GAP gINT FN. F01a
RL3



REPORT OF BOREHOLE: BH207

SHEET: 3 OF 3

DRILL RIG: FD500

CONTRACTOR: Foundril Pty Ltd

LOGGED: WJH DATE: 27/9/11

CHECKED: NK DATE: 1/10/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 81963.18 m E 61521.12 m N GCCC
PROJECT: Gold Coast Rapid Transit SURFACE RL: 14.81 m DATUM: AHD
LOCATION: Zone 2 INCLINATION: -90°
JOB NO: 117632047 HOLE DEPTH: 20.00 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 $I_{s(50)}$ MPa	DEFECT DESCRIPTION & Additional Observations		AVERAGE DEFECT SPACING (mm)
				10	10.78		Continuation of Sheet 2	HW		10.16 m: DB		
							ARGILLACEOUS SANDSTONE			10.28-10.32 m: IS		
							fine grained, brown and grey			10.42-10.53 m: DZ		
			100	67 (90)						10.80 m: J, 10°, Pl, Ro, Sn-Vr		
				11						10.84 m: J, 60°, Pl, Ro, Sn-Vr		
										11.00 m: IS		
										11.50 m: J, 60°, Pl, Ro, Sn-Vr		
										11.55 m: J, 50°, Pl, Ro, Sn-Vr		
										11.63 m: J, 45°, Pl, Ro, Sn-Vr		
										11.84 m: DS		
				12	11.85		trace 10-150 mm quartz bands			12.18 m: J, 60°, Pl, Ro, Sn-Ct		
					2.96					12.56 m: J, 60°, Pl, Ro, Sn-Vr		
			100	100 (100)						12.66 m: J, 50°, Pl, Ro, Sn-Vr		
				13						12.73 m: J, 60°, Pl, Ro, Sn-Ct		
										13.11 m: J, 45°, Pl, Ro, Sn-Vr		
										13.13 m: J, 10°, Un, Ro, Sn-Vr		
										13.86 m: J, 50°, Pl, Ro, Sn-Ct		
										13.91 m: J, 50°, Pl, Ro, Sn-Ct		
										14.07 m: J, 15°, Un, Ro, Sn-Vr		
										14.13 m: J, 10°, Pl, Ro, Sn-Vr		
										14.25 m: J, 39°, Un, Ro, Sn-Vr		
										14.36 m: DB		
										14.41 m: J, 40°, Pl, Ro, Sn-Vr		
										14.59 m: J, 65°, Pl, Ro, Sn-Vr		
										14.64 m: DB		
										14.73 m: DB		
										14.78 m: J, 45°, Pl, Ro, Sn-Ct		
										15.00 m: J, 45°, Pl, Ro, Sn-Vr		
				15	15.00		grey	MW		15.30 m: J, 40°, Pl, Ro, Sn-Vr		
					-0.19					15.48 m: J, 60°, Un, Ro, Sn-Vr		
			100	64 (83)						15.80-15.89 m: FZ		
				16	16.10		ARGILLACEOUS SILTSTONE	SW		16.08 m: J, 40°, Pl, Ro, Sn-Vr		
					-1.29		fine grained, grey with white quartzite bands			16.17-16.49 m: FZ		
										16.51 m: J, 55°, Pl, Ro, Vr		
										16.53 m: IS, 50°, Pl, Ro, Vr		
										16.59 m: J, 10°, Pl, Ro, Vr		
										16.70 m: J, 30°, Pl, Ro, Vr		
										16.85 m: J, 55°, Pl, Ro, Vr		
			100	71 (86)						17.23 m: J, 35°, Pl, Ro, Vr		
				17						17.52 m: J, 20°, Pl, Ro, Vr		
										17.73 m: DB		
										17.85-18.85 m: J, 25°, Un, Ro, Vr		
										17.93 m: HB		
										17.97 m: HB		
										18.03-18.07 m: FZ		
										18.16-18.23 m: FZ		
										18.28 m: HB		
										18.41 m: HB		
				18	18.00		grey and dark grey banding from 18.00 m			18.83 m: J, 10°, Un, Ro, Vr		
					-3.19					18.94 m: J, 25°, Un, Ro, Vr		
										19.11 m: J, 35°, Pl, Ro, Vr		
										19.14 m: HB		
										19.21 m: J, 35°, Pl, Ro, Vr		
										19.26 m: J, 45°, Pl, Ro, Vr		
										19.33 m: J, 50°, Pl, Ro, Vr		
										19.51-19.90 m: FZ		
			100	36 (43)			END OF BOREHOLE @ 20.00 m					
				20	20.00		TARGET DEPTH					
							GROUNDWATER NOT OBSERVED					

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GAP gINT FN. F02a
RL3

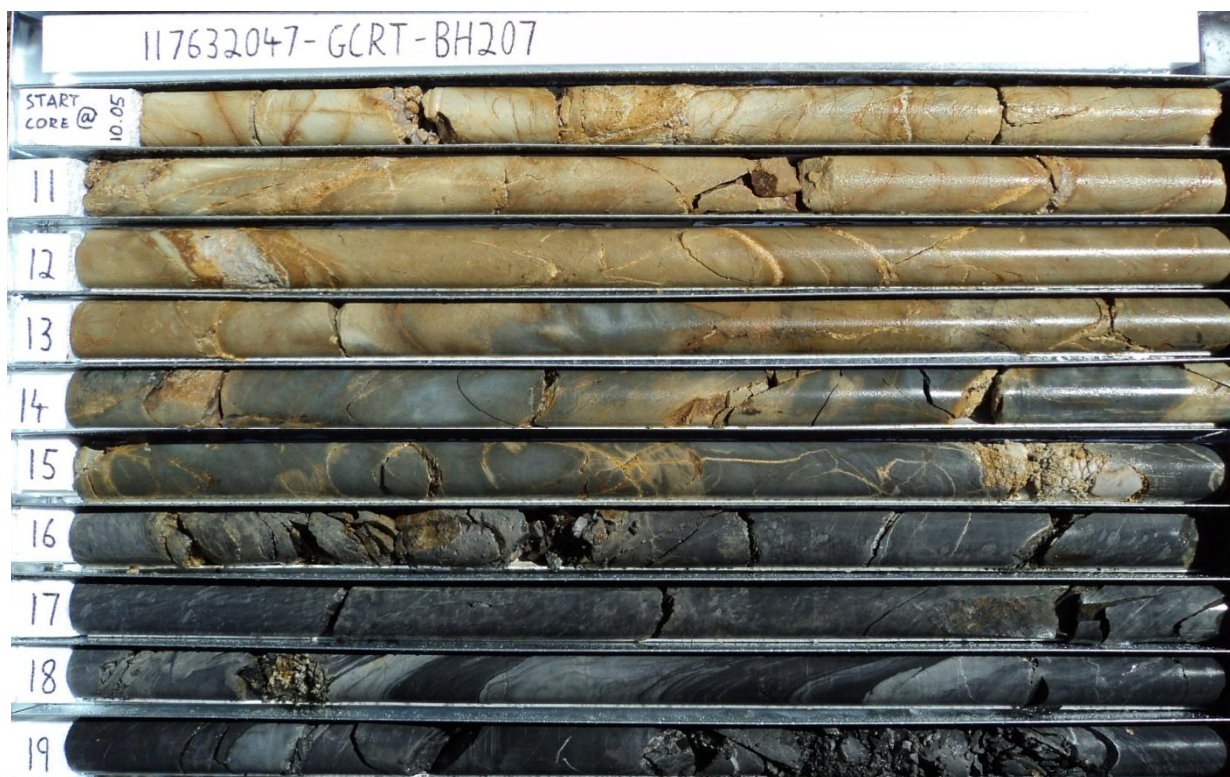


REPORT OF PHOTOGRAPHS: BH207

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

COORDS: 81963.18 m E, 61521.12 m N
SURFACE RL: 14.81 m DATUM: AHD
INCLINATION: -90°
HOLE DEPTH: 20.00 m

DEPTH RANGE: 10.05 – 20.00 m
DRILL RIG: FD500
DRILLER: Foundril Pty Ltd
LOGGED: WJH DATE: 27/9/11
CHECKED: NK DATE: 1/10/11



10.05 – 20.00 m