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REPORT OF BOREHOLE: BH243

SHEET: 1 OF 3

DRILL RIG: FD500

CONTRACTOR: Foundril Pty Ltd

LOGGED: FHH DATE: 16/8/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82415.1 m E 61261.7 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 15.56 m DATUM: AHD

LOCATION: Zone 2 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 18.20 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	15.56	SPT 1.00-1.45 m 3, 6, 1 N=7				Sandy GRAVEL fine to coarse grained, sub-rounded to angular, brown		D	D			
			0.40												
			15.16	TOPSOIL: Gravelly CLAY medium plasticity, dark brown, fine to coarse angular to sub-rounded gravel, with some sand, and rare roots						S - F					
			1	1.00											
			14.56	FILL: Sandy CLAY low to medium plasticity, dark brown to grey, recovered as fine to coarse angular to rounded rock fragments sand, fine to coarse, trace of wood, refuse plastics, organic odour											
			2												
			3							S - F					
			4												
			5												
			5.00												
RD			5	10.56	SPT 5.50-5.95 m 2, 1 N=1 PP =60 kPa				FILL: Clayey Sandy GRAVEL fine to coarse grained, rounded to angular, dark brown to dark grey		M	L			
			5.30												
			10.26	Silty CLAY medium to high plasticity, orange brown, trace fine to medium angular to sub-rounded gravel						S - F					
			6												
			6.50												
			9.06	Silty CLAY medium plasticity, yellow brown and pale grey, variable with zones of clayey silt											
			7												
			8												
			9												
			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: BH243

SHEET: 2 OF 3

DRILL RIG: FD500

CONTRACTOR: Foundril Pty Ltd

LOGGED: FHH DATE: 16/8/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82415.1 m E 61261.7 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 15.56 m DATUM: AHD

LOCATION: Zone 2 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 18.20 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	Groundwater not observed	10		SPT 10.00-10.45 m 8, 13, 16 N=29 PP =250 kPa			CI-ML	Silty CLAY medium plasticity, yellow brown and pale grey, variable with zones of clayey silt	M					
			11	11.00 4.56				yellow brown and pale grey, with extremely closely spaced fissuring (<20 mm) randomly oriented							
			12		SPT 11.50-11.95 m 8, 8, 14 N=22 PP =380 kPa										
			13	13.00 2.56	SPT 13.00-13.45 m 6, 10, 14 N=24			ML	Sandy SILT low plasticity, orange brown and pale grey, trace yellow brown fine sand partings, grading to clayey silt in places exhibiting relic rock structure, extremely closely (<20 mm) fissured						
			14	14.00 1.56					recovered with bands / partings of fine to medium siliceous gravel, trace coarse gravel						
			15		SPT 14.50-14.95 m 8, 14, 24 N=38									M	St - VSt
			16		SPT 16.00-16.45 m 30, 32, 34 N=66										
			17						For Continuation Refer to Sheet 3						
			18												
			19												

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GAP gINT FN. F01a
RL3



REPORT OF BOREHOLE: BH243

SHEET: 3 OF 3

DRILL RIG: FD500

CONTRACTOR: Foundril Pty Ltd

LOGGED: FHH DATE: 16/8/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82415.1 m E 61261.7 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 15.56 m DATUM: AHD

LOCATION: Zone 2 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 18.20 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								10	
				11								20	
				12								30	
				13								40	
				14								50	
				15								60	
				16								70	
				16.50			Continuation of Sheet 2					80	
				-0.94								90	
			100	0			ARGILLACEOUS SILTSTONE	EW				1000	
							fine grained, orange brown and pale grey, non					3000	
							intact, recovered as sandy silt; fine to coarse						
				17			angular gravel-medium to high strength						
				17.00			non intact, recovered as clayey silt / silty clay with						
				17.20			some fine to medium siliceous gravel						
			92	0			thinly to thickly laminated (1-20 mm) with siliceous						
				-1.64			bands / beds (6-50 mm)						
			100	0									
				18									
				18.20			END OF BOREHOLE @ 18.20 m						
				-2.64			GROUNDWATER NOT OBSERVED						
				19									
				20									

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GAP gINT FN. F02a
RL3



REPORT OF CORE PHOTOGRAPHS: BH243

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

COORDS: 82415.16 m E, 61261.70 m N
SURFACE RL: 15.56m DATUM: AHD
INCLINATION: -90°
HOLE DEPTH: 18.20 m

DEPTH RANGE: 16.50 – 18.20 m
DRILL RIG: FD500
DRILLER: Foundril Pty Ltd
LOGGED: FHH DATE: 16/08/11
CHECKED: NK DATE: 15/9/11



16.50 – 18.20 m