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REPORT OF BOREHOLE: BH241

SHEET: 1 OF 3

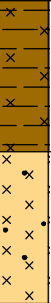
DRILL RIG: Hydrapower Scout

CONTRACTOR: Foundril Pty Ltd

LOGGED: FHH DATE: 20/8/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82391.1 m E 61265.8 m N GCCC
PROJECT: Gold Coast Rapid Transit SURFACE RL: 14.54 m DATUM: AHD
LOCATION: Zone 2 INCLINATION: -90°
JOB NO: 117632047 HOLE DEPTH: 19.80 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	14.54	SPT 1.00-1.45 m 1, 1, 2 N=3 PP =50 kPa				FILL fine to coarse angular gravel in a sandy clay matrix; fragments of rock, concrete, brick with trace plastic, steel wire, wood and roots; strong organic odour.	D		SPT aborted 4 blows for 150 mm then hammer and rods bouncing on rubber debris in hole - aborted and cleaned hole out			
			1												
			2	2.00 12.54	SPT 4.00-4.45 m 1, 3 N>3 PP =100 kPa			FILL medium plasticity, dark brown, recovered dark brown gravelly clay; gravel sized fragments of concrete, brick and rock; recovered with trace timber, plastic, rubber and metal pieces		M	St				
			3												
			4	4.20 10.34				CI					Silty CLAY medium plasticity, brown and pale grey, with some fine to coarse grained sand, rare roots, organic odour		
			5	5.00 9.54				CI				Silty CLAY orange brown and pale grey, with some sand and gravel fragments of mudstone			
			6									Attempted tube sample but no recovery			
			RD			7	7.00 7.54	U50 7.00-7.50 m			CI	Silty CLAY medium plasticity, clayey silt in places			
						8	7.50 7.04					with some fine to coarse grained sand			
						9	8.00 6.54	SPT 8.50-8.80 m 18, 30/149 mm N>30 PP =350 kPa			ML	Sandy SILT medium plasticity, grey, fine to coarse grained, angular sand, becoming clayey in places			
						10	9.00 5.54					CI			
11	10.00														

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GAP gINT FN. F01a
RL3



REPORT OF BOREHOLE: BH241

SHEET: 2 OF 3

DRILL RIG: Hydrapower Scout

CONTRACTOR: Foundril Pty Ltd

LOGGED: FHH DATE: 20/8/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82391.1 m E 61265.8 m N GCCC
PROJECT: Gold Coast Rapid Transit SURFACE RL: 14.54 m DATUM: AHD
LOCATION: Zone 2 INCLINATION: -90°
JOB NO: 117632047 HOLE DEPTH: 19.80 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	4.54	SPT 10.00-10.45 m 7, 11, 11 N=22 PP =300 kPa			ML	Sandy SILT low plasticity, orange brown and pale grey, fine grained sand, becoming clayey silt in places, trace fine to medium silica gravel		M	VSt-H	
			11	11.00 3.54	becoming orange brown with pockets of red brown sand and laminations and relict rock structure.								
			12	SPT 11.50-11.95 m 11, 9, 16 N=25 PP =220 kPa									
			13	SPT 13.00-13.45 m 6, 11, 14 N=25 PP =250 kPa									
			14	14.20 0.34	SPT 14.50-14.80 m 14, 30/149 mm HB N>30 PP =500 kPa			CL	Silty CLAY pale brown, with some fine sand partings, trace fine to medium siliceous gravel, relic rock structure thinly laminated; laminations stained orange brown				
			15					For Continuation Refer to Sheet 3					
			16										
			17										
			18										
			19										
			20										

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GAP gINT FN. F01a
RL3



REPORT OF BOREHOLE: BH241

SHEET: 3 OF 3

DRILL RIG: Hydrapower Scout

CONTRACTOR: Foundril Pty Ltd

LOGGED: BC DATE: 20/8/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 82391.1 m E 61265.8 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: 14.54 m DATUM: AHD

LOCATION: Zone 2 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 19.80 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								
				11								
				12								
				13								
				14								
				15	15.00		Continuation of Sheet 2					
			97	20 (20)	-0.46		ARGILLACEOUS SILTSTONE fine grained, pale grey and orange brown	EW - HW				
			99	0 (0)						16.05-16.10 m: CZ, recovered crushed zone soft to firm clay with gravel sized rock fragments.		
					16							
					16.70					16.55-16.65 m: recovered non intact with some siliceous gravel.		
					16.81		CORE LOSS					
					-2.27		ARGILLACEOUS SILTSTONE fine grained, pale grey and orange brown					
			81	0 (0)								
					17							
					17.90					18.13-18.33 m: non intact		
					-3.36		CORE LOSS					
					18							
					-3.59		ARGILLACEOUS SILTSTONE fine grained, pale grey and orange brown, very closely fractured (20-100 mm) sub-vertical to sub-horizontal with bedding / laminations (30-40°), all fractures surfaces stained orange brown					
			78	0 (0)								
					19							
					19.00		becoming pale grey and dark grey	HW				
			100	0 (0)	-4.46							
					19.80		END OF BOREHOLE @ 19.80 m GROUNDWATER NOT OBSERVED					
				20								

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GAP gINT FN. F02a
RL3



REPORT OF PHOTOGRAPHS: BH241

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

COORDS: 82391.1 m E, 61265.8 m N
SURFACE RL: 14.54 m DATUM: AHD
INCLINATION: -90°
HOLE DEPTH: 19.80 m

DEPTH RANGE: 15.00 – 19.80 m
DRILL RIG: FD500
DRILLER: Foundril Pty Ltd
LOGGED: FHH DATE: 20/8/11
CHECKED: NK DATE: 26/9/11



15.00 – 19.80 m