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REPORT OF BOREHOLE: BH413

SHEET: 1 OF 2

CLIENT: McConnell Dowell Constructors (Aust) P/L
COORDS: 85408.6 m E 60488.0 m N GCCC
DRILL RIG: Hydrapower Scout

PROJECT: Gold Coast Rapid Transit
SURFACE RL: 2.0 m DATUM: AHD
CONTRACTOR: GeoDrill Pty Ltd

LOCATION: Zone 4
INCLINATION: -90°
LOGGED: BT DATE: 12/9/11

JOB NO: 117632047
HOLE DEPTH: 9.70 m
CHECKED: NK DATE: 27/9/11

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	L		0	1.95					FILL: Sandy Clayey GRAVEL fine to coarse grained, sub-rounded to sub-angular, pale brown to dark brown, low plasticity clay, fine to coarse grained sand			Grass at surface. Roots
					SPT 0.50-0.95 m 3, 3, 5 N=8							
			1	1.10 0.85	SPT 1.00-1.45 m 3, 3, 4 N=7				FILL: Silty SAND fine to coarse grained, sub-rounded to sub-angular, pale brown	M		
				2.00 -0.05								
			2	2.20 -0.25				SC	FILL: Sandy Clayey GRAVEL fine to coarse grained, sub-angular to angular, brown, low plasticity clay, fine to coarse grained sand			Some cobble size pieces of concrete with red paint
RT	M-H			2.50 -0.55	SPT 2.50-2.95 m 1, 2, 7 N=9			SM	Clayey SAND fine to coarse grained, sub-rounded to sub-angular, dark grey brown, low plasticity clay	W	L	
				2.85				GP	Silty SAND fine to coarse grained, sub-rounded to sub-angular, dark grey		MD	Gravel sized pieces of rock in base of SPT sample
			3						GRAVEL fine to coarse grained, sub-rounded to sub-angular, pale grey, top of GREYWACKE			
									For Continuation Refer to Sheet 2			
			4									
			5									
			6									
			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.

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REPORT OF BOREHOLE: BH413

SHEET: 2 OF 2

CLIENT: McConnell Dowell Constructors (Aust) P/L
PROJECT: Gold Coast Rapid Transit
LOCATION: Zone 4
JOB NO: 117632047

COORDS: 85408.6 m E 60488.0 m N GCCC
SURFACE RL: 2.0 m DATUM: AHD
INCLINATION: -90°
HOLE DEPTH: 9.70 m

DRILL RIG: Hydrapower Scout
CONTRACTOR: GeoDrill Pty Ltd
LOGGED: BT DATE: 12/9/11
CHECKED: NK DATE: 27/9/11

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 (EL 0.03, VL 0.1, L 0.3, M 1, H 3, VH 10, EH)	DEFECT DESCRIPTION & Additional Observations	AVERAGE DEFECT SPACING (mm) (10, 30, 100, 300, 1000, 3000)
				0							
				1							
				2							
				3	3.02		Continuation of Sheet 1				
NMLC		100	100		-1.07		GREYWACKE fine grained, grey, massive, quartz veins up to 20 mm thick at approximately 150 mm spacings	SW - FR		3.06-3.28 m: J, 80°, Pl, Sm, Sn, 1 mm, iron oxide, with conjugate joints at 3.09 m and 3.28 m 3.52 m: J, 10°, Un, Sm, Sn, 2 mm, iron oxide 3.68-3.70 m: DB	
		100	100	4						3.95 m: IS, 30°, Un, Ro, 10 mm, quartz crystals 4.05 m: HB 4.32 m: J, 30°, Un, Ro, Cn, 5 mm 4.59-4.75 m: J, 80°, Un, Sn, closed, iron oxide, with conjugate joint at 4.63 m 4.71-4.94 m: J, 80°, Un, closed, iron oxide, with conjugate joints at 4.86m and 4.94m 4.95-5.00 m: HB 5.00-5.16 m: J, subvertical, closed 5.18-5.20 m: HB 5.20-5.40 m: HB 5.30-5.70 m: J, subvertical, closed, with conjugate joints at 5.42 m and 5.6 m 5.70 m: J, 20°, Un, Ro, Cn, 3 mm	
		100	100	5							
		100	100	6						5.87 m: J, 10°, Un, Ro, Sn, 2 mm, iron oxide 5.95-6.04 m: HB 6.04-6.19 m: J, subvertical, closed 6.20 m: J, 20°, Un, Ro, Sn, 5 mm, iron oxide 6.46 m: J, 20°, Un, Ro, Sn, 2 mm, iron oxide	
		100	100	7						6.92-7.00 m: HB 7.24 m: J, 40°, Un, Ro, Cn, 2 mm 7.53 m: J, 50°, Un, Ro, Cn, 1 mm 7.64-8.00 m: J, Un, Ro, subvertical, closed, with conjugate joints at 7.72 m and 7.89 m	
		100	100	8						8.01-8.25 m: HB	
				9							
					9.70		END OF BOREHOLE @ 9.70 m TARGET DEPTH GROUNDWATER ENCOUNTERED @ 2.20 m DEPTH			
				10							

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GAP gINT FN. F02a RL3

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REPORT OF CORE PHOTOGRAPHS: BH413

CLIENT: McConnell Dowell Constructors
PROJECT: Gold Coast Rapid Transit
LOCATION: Zone 4
JOB NO: 117632047

COORDS: 85408.6 m E, 60488.0 m N
SURFACE RL: 1.95 m DATUM: AHD
INCLINATION: -90°
HOLE DEPTH: 9.70 m

DEPTH RANGE: 3.02 – 9.70 m
DRILL RIG: Hydropower Scout
DRILLER: Geodrill Pty Ltd
LOGGED: BT DATE: 12/09/11
CHECKED: NK DATE: 26/09/11



3.02 – 9.70 m

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