REPORT OF BOREHOLE: BH228

SHEET: 1 OF 3

CLIENT: McConnell Dowell Constructors (Aust) P/L
COORDS: 82235.8 m E 61299.8 m N GCCC
DRILL RIG: Hydrapower Scout

PROJECT: Gold Coast Rapid Transit
SURFACE RL: 17.29 m DATUM: AHD
CONTRACTOR: GeoDrill Pty Ltd

LOCATION: Zone 2
INCLINATION: -90°
LOGGED: WJH DATE: 24/8/11

JOB NO: 117632047
HOLE DEPTH: 20.60 m
CHECKED: NK DATE: 26/9/11

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
ADV	L-M	Groundwater not observed	0	17.29	SPT 0.50-0.95 m 11, 10, 9 N=19				FILL: Sandy CLAY high plasticity, brown, with some fine to medium sub-angular gravel	D	F - St	
			1		SPT 1.00-1.45 m 8, 5, 4 N=9					D - M		
				1.50								
				15.79					FILL: Sandy CLAY fine, dark grey, trace pieces of wood and rubbish			
			2		SPT 2.50-2.95 m 4, 3, 12 N=15							
				2.95								
			3	14.34					cuttings consist of wood			
			4		SPT 4.00-4.45 m 3, 2, 3 N=5							
			5								S - F	
					SPT 5.50-5.95 m 6, 9, 3 N=12					M - W		
			6	5.95 11.34					cuttings consist of wood			
RT	M		7		SPT 7.00-7.45 m 8, 6, 9 N=15							5.0-8.0 m possibly large pieces of wood in the fill
				7.50 9.79					cuttings consist of wood			
			8		SPT 8.50-8.95 m 6, 7, 12 N=19							
			9								St	
			10									

REPORT OF BOREHOLE: BH228

SHEET: 2 OF 3

CLIENT: McConnell Dowell Constructors (Aust) P/L
COORDS: 82235.8 m E 61299.8 m N GCCC
DRILL RIG: Hydrapower Scout

PROJECT: Gold Coast Rapid Transit
SURFACE RL: 17.29 m DATUM: AHD
CONTRACTOR: GeoDrill Pty Ltd

LOCATION: Zone 2
INCLINATION: -90°
LOGGED: WJH DATE: 24/8/11

JOB NO: 117632047
HOLE DEPTH: 20.60 m
CHECKED: NK DATE: 26/9/11

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
			10		SPT 10.00-10.45 m 4, 5, 6 N=11				FILL: Sandy CLAY fine, dark grey, trace pieces of wood and rubbish	M - W		
				10.90 6.39				CH	CLAY high plasticity, grey and red		St	
			11		SPT 11.50-11.95 m 5, 6, 10 N=16							
			12									
			13		SPT 13.00-13.45 m 5, 9, 15 N=24							
				13.20 4.09				CL	Silty CLAY low plasticity, pale grey			
			14									
				14.70 2.59	SPT 14.50-14.95 m 7, 10, 12 N=22				trace fine sub-angular gravel		VSt	
	M	Groundwater not observed	15							M (>PL)		
			16		SPT 16.00-16.45 m 8, 12, 11 N=23							
			17									
				17.20 0.09				ML	Clayey SILT low plasticity, pale grey and brown			Inferred EW siltstone
			18		SPT 17.50-17.95 m 8, 11, 20 N=31						VSt - H	
			19									
				19.15 -1.86	SPT 19.00-19.24 m 22, 30/90 N>30				becoming grey			
			20									

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: BH228

SHEET: 3 OF 3

CLIENT: McConnell Dowell Constructors (Aust) P/L
COORDS: 82235.8 m E 61299.8 m N GCCC
DRILL RIG: Hydrapower Scout

PROJECT: Gold Coast Rapid Transit
SURFACE RL: 17.29 m DATUM: AHD
CONTRACTOR: GeoDrill Pty Ltd

LOCATION: Zone 2
INCLINATION: -90°
LOGGED: WJH DATE: 24/8/11

JOB NO: 117632047
HOLE DEPTH: 20.60 m
CHECKED: NK DATE: 26/9/11

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
WB	M		20					ML	Clayey SILT low plasticity, pale grey and brown	M (>PL)	VSt - H	
					SPT 20.50-20.56 m 30/60 mm							
				-3.31					END OF BOREHOLE @ 20.60 m TARGET DEPTH GROUNDWATER NOT OBSERVED			
			21									
			22									
			23									
			24									
			25									
			26									
			27									
			28									
			29									
			30									