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REPORT OF BOREHOLE: BH437

SHEET: 1 OF 3

DRILL RIG: Fox B40

CONTRACTOR: Schneider Drilling Pty Ltd

LOGGED: BC DATE: 5/9/11

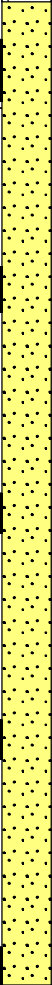
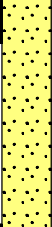
CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 86099.9 m E 58967.3 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: -1.12 m DATUM: AHD

LOCATION: Zone 4 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 28.40 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	
RT	M-H	Partial loss through sands	0	-1.12				BOULDERS dark grey, no sample recovered, probable boulder bed for channel protection, based on channel sides - boulders are 200 mm to 600 mm diameter angular					
			3	3.00 -4.12	SPT 3.25-3.70 m 19, 17, 23 N=40		SM / SP	SAND fine to coarse grained, angular, pale brown, with trace coarse sand sized shell fragments					
				4									
				5	5.00 -6.12	SPT 4.75-5.05 m 16, 30/149 mm N>30			becoming fine to medium grained	W			
				6		SPT 6.25-6.51 m 22, 30/110 mm N>30					D - VD		
				7									
				8		SPT 7.75-8.00 m 26, 30/100 mm N>30							
				9									
				10	9.50 -10.62	SPT 9.25-9.63 m 11, 25, 30/80 mm N>55		SM / SP	SAND fine to medium grained, sub-rounded to angular, dark brown, organic odour, recovered with trace fine to medium gravel of consolidated sand				
				11									

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: BH437

SHEET: 2 OF 3

DRILL RIG: Fox B40

CONTRACTOR: Schneider Drilling Pty Ltd

LOGGED: BC DATE: 5/9/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 86099.9 m E 58967.3 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: -1.12 m DATUM: AHD

LOCATION: Zone 4 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 28.40 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	STRUCTURE AND ADDITIONAL OBSERVATIONS
RT			10				SM / SP	SAND fine to medium grained, sub-rounded to angular, dark brown, organic odour, recovered with trace fine to medium gravel of consolidated sand		
			11		SPT 10.70-10.83 m 30/130 mm					
			12		SPT 12.20-12.50 m 16, 30/149 mm N>30					
			13		SPT 13.20-13.65 m 10, 15, 24 N=39					
			14							
			15		SPT 14.70-15.15 m 13, 17, 23 N=40				W	
			16	16.00 -17.12	SPT 16.20-16.63 m 10, 18, 30/130 mm N>48		SM	SAND fine to medium grained, brown to pale brown	D - VD	
			17		SPT 17.45-17.73 m 15, 30/130 mm N>30					
			18							
			19		SPT 18.95-19.20 m 22, 30/100 mm N>30					
			20							

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GAP gINT FN. F01a
RL3



REPORT OF BOREHOLE: BH437

SHEET: 3 OF 3

DRILL RIG: Fox B40

CONTRACTOR: Schneider Drilling Pty Ltd

LOGGED: BC DATE: 5/9/11

CHECKED: NK DATE: 26/9/11

CLIENT: McConnell Dowell Constructors (Aust) P/L COORDS: 86099.9 m E 58967.3 m N GCCC

PROJECT: Gold Coast Rapid Transit SURFACE RL: -1.12 m DATUM: AHD

LOCATION: Zone 4 INCLINATION: -90°

JOB NO: 117632047 HOLE DEPTH: 28.40 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	
RT			20					SM	SAND fine to medium grained, brown to pale brown	W	D - VD			
			20.50											
			21	21.00	SPT 20.45-20.90 m 1, 2, 3 N=5 PP =50 kPa		ML	Clayey Sandy SILT medium plasticity, grey, silty clay to clayey sand in places						
			21	21.00				decreasing clay / silt with depth		F				
			22	22.00	SPT 21.95-22.40 m 2, 12, 30 N=42		SM	Silty SAND fine to medium grained, grey		D - VD				
			23	23.00										
			24		U50 23.45-23.95 m					S - F				
			25		SPT 24.95-25.40 m 1, 2, 3 N=5 PP =180 kPa				M					
			26	26.00				trace fine sand partings, and trace shell fragments		F				
			27	27.20	SPT 26.45-26.90 m 1, 0, 5 N=5									
		28	28.32			SM	Silty SAND fine to medium grained, angular, grey, trace angular to sub-rounded fine to coarse siliceous gravel	W	MD					
			28		SPT 27.95-28.40 m 5, 5, 9 N=14									
			29	-29.52					END OF BOREHOLE @ 28.40 m DRILLED OVER WATER					

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