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BOREHOLE ENGINEERING LOG

BOREHOLE NO.

RTBH18A

SHEET 1 OF 2

Client: **Department of Transport and Main Roads** Date Commenced: **3/3/10**
 Project: **Gold Coast Rapid Transit** Date Completed: **3/3/10**
 Borehole Location: **Barney Street, Ch: 24874.5** Recorded By: **DS**
 Project Number: **2161016A** Log Checked By: *L MCK*

Drill Model/Mounting: **Drillpower Hydrapower Scout** Hole Angle: **90°** Surface RL: **1.67 m AHD***
 Borehole Diameter: **75 mm** Bearing: **---** Co-ords: **E 85382.13 N 60450.46 GCCC Grid***

Borehole Information						Field Material Description						
1	2	3	4	5	6	7	8	9	10	11	12	13
METHOD	SUPPORT	WATER	RL(m) AHD*	DEPTH(m)	SAMPLE	GRAPHIC LOG	USC SYMBOL	SOIL/ROCK MATERIAL FIELD DESCRIPTION	MOISTURE	RELATIVE DENSITY / CONSISTENCY	HAND PENETROMETER (kPa)	STRUCTURE AND ADDITIONAL OBSERVATIONS
									VS FB VL SL L ST MD VST D H VD			
TC	C		0.05 0.15					ASPHALT				PAVEMENT MATERIALS
				1 0.70				FILL (Sandy GRAVEL): fine to coarse grained, grey-brown, fine to coarse grained sand.				FILL
				1 1				FILL (Gravelly SAND with SILT): medium grained, brown, fine to coarse grained, angular gravel.				
				1 1.40				FILL (SAND): fine grained, dark grey with organics. ... 1.0 m: pale grey				
				2 2				FILL (Clayey SAND with GRAVEL): grey-brown, fine to medium grained, medium plasticity fines, fine to medium grained angular gravel.				
				2.60			SW	SAND: fine grained, dark grey-brown, with shell fragments, trace organics.				ESTUARINE SEDIMENTS
	M			3 3.90				META-GREYWACKE: fine to medium grained, pale green to grey, appears silicified, moderately weathered, low strength.				WEATHERED ROCK
				4 5 6				REFER TO CORED BOREHOLE LOG				
				7 8 9								
				10 11 12 13								

This borehole log should be read in conjunction with Parsons Brinckerhoff's accompanying standard notes.



CORED BOREHOLE ENGINEERING LOG

BOREHOLE NO.

RTBH18A

SHEET 2 OF 2

Client:	Department of Transport and Main Roads	Date Commenced:	3/3/10
Project:	Gold Coast Rapid Transit	Date Completed:	3/3/10
Borehole Location:	Barney Street, Ch: 24874.5	Recorded By:	DS
Project Number:	2161016A	Log Checked By:	<i>LMLK</i>

Drill Model/Mounting:	Drillpower Hydrapower Scout	Hole Angle:	90°	Surface RL:	1.67 m AHD*
Borehole Diameter:	75 mm	Bearing:	---	Co-ords:	E 85382.13 N 60450.46 GCCC Grid*

Borehole Information						Field Material Description						
1	2	3	4	5	6	7	8	9	10	11	12	
METHOD	SUPPORT	WATER	CORE RECOVERY	RQD	RL(m) AHD*	DEPTH(m)	GRAPHIC LOG	SOIL/ROCK MATERIAL FIELD DESCRIPTION	WEATHERING	INFERRED STRENGTH (s(50) MPa)	AVERAGE DEFECT SPACING mm	STRUCTURE AND ADDITIONAL OBSERVATIONS
									EL 0.03 VL 0.1 WL 0.3 WH 1 VH 3 EH 10	10 30 100 300 1000 3000		
						1						
						1						
						0						
						2						
						-1						
						3						
						-2						
						4						
						-3						
						5						
						-4						
						6		COMMENCE CORING AT 6 m				
NMLC	M		100	40		6		META-GREYWACKE: fine to medium grained, pale green to grey, appears silicified.	MW			6.0 m - 8.0 m: Multiple healed fractures with quartz infill and trace Fe staining.
			100	30		5						6.05 m: J, 45°, P, S, Fe stained
			100	35		7						6.17, 6.26 m: J x 2, 10°, Ir, R, Fe stained
			100	0		8						6.46 m: DB, Ir, R, trace pyrite
						8						6.53 m - 6.63 m: J, 70°, P, S, trace Fe stained
						7						6.55 m: J, Ir, R
						7						6.62 m: DB
						6						6.65 m: J, 45°, P, S, Fe stained
						6						6.65 m - 6.84 m: J, 80°, P, S, incipient in parts, trace pyrite ?
						6						6.92 m: J, 45°, P, S, clean
						7						7.1 m - 7.64 m: 7 x J, 15° to 45°, P-Ir, S-R, Fe Stained
						7						7.85 m - 7.9 m: Non intact core, Fe stained,
						7						7.9 m - 8.0 m: Non intact core
						7						8.02 m: J, 45°, P, S, clean
						7						8.14 m - 8.28 m: Quartz vein, sub vertical irregular, 5-20 mm, Fe stained
						7		... 8.5 m - 8.62 m: pale grey.				8.33 m - 8.6 m: Non intact core
						6		END OF BOREHOLE AT 9.00 m				8.65 m, 8.89 m: J, 60°-90°, P, S, clean
						-8						Limit of Investigation
												* Horizontal and vertical data determined by Ground Survey

This borehole log should be read in conjunction with Parsons Brinckerhoff's accompanying standard notes.

REPORT OF PHOTOGRAPHS



Borehole number: RTBH18A

Sheet 1 of 1

Client:	Department of Transport and Main Roads	Coordinates:	E 85382.13 N 60450.46	Depth range:	6.0 m – 9.0 m
Project:	Gold Coast Rapid Transit	Surface RL:	1.67 m AHD	Inclined length:	-
Borehole location:	Ch: 24869.3	Hole angle:	90 °	Drill model/mounting:	Hydrapower Scout
Project number:	2161016A	Bearing:	-	Borehole diameter:	75 mm

