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## **BOREHOLE ENGINEERING LOG**



## RTBH03

SHEET 1 OF 4

Client: Department of Transport and Main Roads **Gold Coast Rapid Transit** 

Date Commenced: Date Completed:

19/2/10 19/2/10

Project: Borehole Location:

Parklands Drive, Ch: 19490.6

Recorded By: Log Checked By:

DS LMGK

Project Number:

2161016A

Drill Model/Mounting: Drillpower Hydrapower Scout

90° Hole Angle:

Surface RL: 22.70 m AHD\*

	Borehole Diameter: <b>75 mm</b>					many and the second control of the second co					p-ords: E 81476.88 N 62088.54 GCCC Gr				
ſ		Borehole Information				Field Material D	9000-3	100000	- N						
	1	2	3	4	and the	5	6	7	8	9		10	11	12	13
	METHOD	SUPPORT	WATER	RL(m) AHD*	DEPTH(m)	FIELD TEST	SAMPLE	GRAPHIC LOG	USC SYMBOL	SOIL/ROCK MATERIAL FIELD DESCRIPTION		MOISTURE	RELATIVE DENSITY CONSISTENCY  ST MD CONSISTENCY  ACT D CONSISTENCY	HAND PENETROMETER (kPa)	STRUCTURE AND ADDITIONAL OBSERVATIONS
	TC	С	ZHO	_ 0.05	_					ASPHALT FILL (Silty GRAVEL): fine to coarse grained, dark grey, roadbase	1	D			PAVEMENT MATERIALS
			ZHG\$W	- 0.50 -22 0.80	-			7	СН	Silty CLAY: high plasticity, pale grey-brown mottled orange and red-brown		MC <pl< td=""><td></td><td></td><td>RESIDUAL SOIL</td></pl<>			RESIDUAL SOIL
	WB			- 0.80	1-	SPT				META-SILTSTONE: grey-white mottled orange and brown		M			WEATHERED ROCK
*				- - -21 - -	2-	10,21,22 N=43	SPT			2.1 m: colour change to grey-green					trace coarse grained sand and fine grained gravel size quartz in SPT sample.
GDT 25/5/10			7 7 8	- -20 - - - - 3.50	3-	SPT 14,28,30 /95mm	U50			META-SANDSTONE: coarse grained, pale grey					
2-2006.			8	–19 –	-					with orange and brown staining					
Parsons Brinckerhoff Australia Pty Ltd. Version 5.1 ENGINEERING BOREHOLE LOG GCRT_BOREHOLES.GPJ GEOTECH_24-2-2006.GDT 25/5/10				- -18 - - -17 - - -16 - - -15 - - - -14 - - - -13	5					REFER TO CORED BOREHOLE LOG					
O Pa						This b	oreho	ole log	shou	ld be read in conjunction with Parsons Brinckerhoff's	s a	cco	mpanying s	tandard	notes.

# 100 YEARS @

#### **CORED BOREHOLE ENGINEERING LOG**

BOREHOLE NO.

# RTBH03

SHEET 2 OF 4

Client: Project: Department of Transport and Main Roads

Date Commenced: Date Completed: 19/2/10 19/2/10

Borehole Location: Project Number: Gold Coast Rapid Transit Parklands Drive, Ch: 19490.6

2161016A

Recorded By: Log Checked By: DS

Drill Model/Mounting:

**Drillpower Hydrapower Scout** 

Hole Angle: 90°

Surface RL:

22.70 m AHD\*

Bo	Or	ehr	ا مار	nfo	rma	tion	T		Field	1 1	laterial De	scrintion	1
1 2	_	3	4	5	IIId	6	7	8		9	10	11	12
METHOD			CORE		RL(m) AHD*	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	907	SOIL/ROCK MATERIAL FIELD D		THERING	L C C C C C C C C C C C C C C C C C C C	AVERAGE DEFECT SPACING mm	STRUCTURE AND ADDITIONAL OBSERVATIONS
NMIC AMPLE			100	0	-22 -22 -21 -20 -19 -18	3 3 5		COMMENCE CORING AT 4 META-SANDSTONE: pale gorange and brown staining, to grained gravel size quartz ro	m rey with X race fine ck fragments	~			<ul> <li>4.32 m - 4.76 m: Non intact core</li> <li>5.0 m - 5.32 m: Non intact core</li> </ul>
			32	0	- - -17 -	5.36	-	CORE LOSS					
VB					-16 15 14 13	2.00 6 7.05 7 7.45 8 8.10		META-SANDSTONE: fine to grained, pale grey with orang red-brown staining, fine grain size quartz, fragments  META-SILTSTONE: grey with brown and red-brown staining quartz vein	h orange	~			7.0 m - 7.4 m: SPT 30/140mm  8.5 m - 8.95 m: SPT 17, 30/100 mm

### CORED BOREHOLE ENGINEERING LOG

BOREHOLE NO.

## RTBH03

SHEET 3 OF 4

Client: Department of Transport and Main Roads Project:

**Gold Coast Rapid Transit** Parklands Drive, Ch: 19490.6

2161016A Project Number:

100 YEARS

Borehole Location:

Date Commenced:

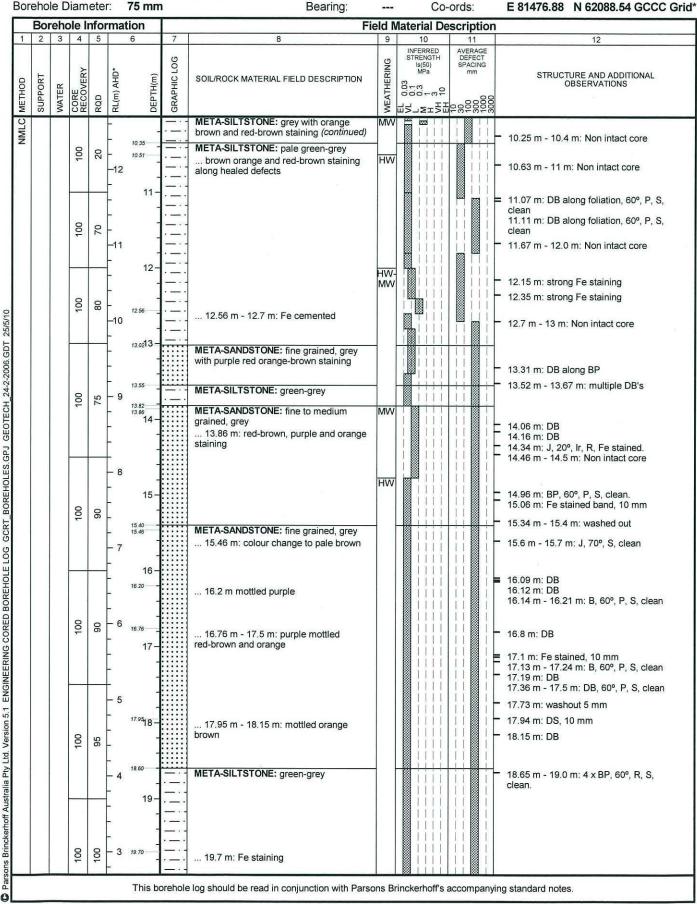
Date Completed: Recorded By: Log Checked By:

19/2/10 DS

19/2/10

Drill Model/Mounting: **Drillpower Hydrapower Scout** Hole Angle: 90° Surface RL: 22.70 m AHD\*

Borehole Diameter: 75 mm Bearing Co-ords: E 81476.88 N 62088.54 GCCC Grid\*





## CORED BOREHOLE ENGINEERING LOG

BOREHOLE NO.

## RTBH03

SHEET 4 OF 4

Client: Department of Transport and Main Roads Date Commenced: 19/2/10 **Gold Coast Rapid Transit** 19/2/10 Project: Date Completed: Parklands Drive, Ch: 19490.6 Borehole Location: Recorded By: DS Project Number: 2161016A Log Checked By: 1 mgh

HOD PORT	RQD	Bearing: Fig. 8  SOIL/ROCK MATERIAL FIELD DESCRIPTION	THERING ω	Co-ords:  Iaterial Description  10 11  INFERRED AVERAGE DEFECT STRENGTH DEFECT SPACING MPa mm	E 81476.88 N 62088.54 GCCC Grid
SUPPORT CORE RECOVERY PORTS	RL(m) AHD*  RL(m) AHD*  DEPTH(m)  GRAPHIC LOG  4	8	THERING ω	10 11 INFERRED AVERAGE STRENGTH DEFECT	12
NMLC METHOD SUPPORT WATER CORE RECOVERY	20.13	SOIL/ROCK MATERIAL FIELD DESCRIPTION	THERING	STRENGTH DEFECT	4
NMIC	- 1:::::		WEA-	N T T T T T T T T T T T T T T T T T T T	STRUCTURE AND ADDITIONAL OBSERVATIONS
08 8	20.40	META-SANDSTONE: grey with Fe staining along healed defects 20.40 m: mottled red-brown	HW-		20.14 m: B, 60°, P, S, clean 20.32 m: DB
	- 1 21.72	with purple and orange staining.  CORE LOSS  INTERBEDDED META-SILTSTONE and	HW		21.36 m: DB 21.51 m: B, 60°, P, S, clean 22 m - 22.1 m: Non intact core
100	22.33	META-SANDSTONE: red-brown and dark grey bands < 0 mm - 5 mm thick fine grained, grey with purple staining grey with orange purple and brown staining fine grained grey-brown with purple and	HW-		22.3 m - 22.41 m: B, 65°, P, S, Fe stained 22.35 m: foliation 60° 22.39 m: DB 22.73 m - 22.9 m: Non intact core
	1	orange staining	MW		23.05 m: DB 23.14 m: DB 23.24 m: DB 23.46 m: DB
100	24				23.9 m: B, 60°, P, S, clean 24.4 m - 25 m: 4 x BP, 60°, P, S, clean
	- 7			<u> </u>	24.9 m - 25 m: Non intact core
		END OF BOREHOLE AT 25.00 m			24.9 m - 25 m: Non intact core  Limit of Investigation  * Horizontal and vertical data determined by Ground Survey

## REPORT OF PHOTOGRAPHS



Borehole number:

RTBH03

Client:

Department of

Transport and Main Roads

Coordinates:

E 81476.88 N 62088.54

Depth range:

4.0 m - 25.0 m

Project:

Gold Coast Rapid Transit

Surface RL:

22.70 m AHD

Inclined length:

Sheet

Borehole location:

Ch: 19526.7

Hole angle:

90°

Drill model/mounting:

**Hydrapower Scout** 

Project number:

2161016A

Bearing:

-

Borehole diameter:

75 mm





