

COPYRIGHT NOTICE

This geotechnical log and its associated data (the Document) is licensed by the Queensland Department of Transport and Main Roads under the [Creative Commons Attribution 4.0 Licence](#) (CC BY 4.0). When reusing the Document, in whole or in part, please attribute the Department as follows: "*(c) State of Queensland (Department of Transport and Main Roads) 2020, licensed under the CC BY 4.0 Licence*". This licence does not apply to the Queensland Government logo or trademarks.

LIMITATION OF LIABILITY

The CC BY 4.0 Licence contains a comprehensive Disclaimer of Warranties and Limitation of Liability. In addition, please note that this Document was prepared for Departmental use only. Reuse of the Document by anyone for any other purpose could result in error and/or loss. You should obtain professional advice before making decisions based on the contents of the Document.

When reproducing any part of this Document, you must also reproduce this limitation of liability notice in addition to the italicised attribution statement above.

Retrieved from the Queensland Geotechnical Database <http://qgd.org.au/>



ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND
SYMBOLS REFER FORM F:GEOT 017/6-2010

BOREHOLE No **BH23**
SHEET **1** of **2**
REFERENCE No **H11034**

PROJECT Moreton Bay Rail Link
LOCATION Kippa Ring Station, Ch. 12450 COORDINATES 507975.2 E; 6988571.4 N
PROJECT No FG5921 SURFACE R.L. 1.70m PLUNGE _____ DATE STARTED 19/5/11 GRID DATUM MGA94 Zone 56
JOB No 250/120/3 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 19/5/11 DRILLER R&D Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	1.70		CORE REC %									
0.70					Silty CLAY (Topsoil) Mottled grey, orange, moist, firm.						Based on Driller's logs only	
0.47				A	Silty CLAY (Alluvial) Grey with yellow orange mottles, moist, firm.		(CH)				DD = 1.10t/m ³ , Su = 114kPa	U50
					High plasticity; root fragments throughout.		(SP-SM)					
-0.30				B	Silty SAND (Alluvial) Dark grey brown, loose, moist, medium to coarse grained, angular sand.						2.5,7 N=12	SPT
					Sandy CLAY (Alluvial) Yellow brown grey, scattered with red-yellow streamings and mottles throughout, stiff.							
				C	Medium to high plasticity.		(CI-CH)				5.4,6 N=10	SPT
					Sand fraction is medium to coarse grained; minor plant material; iron stained nodules.							
-2.30					Becoming grey below 3m.							
				D	Silty CLAY (Residual) Pale grey white with brown, black and grey mottles, slightly moist, very stiff to hard, Contains feldspathic sand in parts.						7,13,21 N=34	SPT
					High plasticity.							
				E	Becoming very stiff below 6m.						13,19,22 N=41	SPT
				F			(CH)				6.8,11 N=19	SPT
				G	Yellow brown iron stained bands below 7m depth.						6.8,11 N=19	SPT
-6.80												
				H	SANDSTONE XW: Exhibits engineering properties of yellow brown with brown, red brown and white mottles, moist, hard, medium grained quartz feldspathic sandy clay / clayey sand.		XW				13,22,35 N>50	SPT
-7.70			(73)		MW: (See over)		MW				Is(50) = 0.96MPa Is(50) = 0.91MPa	x o
10												

REMARKS _____

LOGGED BY
BW / DC2



ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND
SYMBOLS REFER FORM F:GEOT 017/6-2010

BOREHOLE No BH23
SHEET 2 of 2
REFERENCE No H11034

PROJECT Moreton Bay Rail Link
LOCATION Kippa Ring Station, Ch. 12450 COORDINATES 507975.2 E; 6988571.4 N
PROJECT No FG5921 SURFACE R.L. 1.70m PLUNGE _____ DATE STARTED 19/5/11 GRID DATUM MGA94 Zone 56
JOB No 250/120/3 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 19/5/11 DRILLER R&D Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD () %	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH							DEFECT SPACING (mm)				GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS		SAMPLES	TESTS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
										EH	VH	M	J	VL	EL	20	60	200	600	2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
10	-8.30					SANDSTONE MW: (Cont'd) Grey brown with black, red, white and grey mottles, coarse grained sand with minor rounded lithic fragments, medium strength. Iron staining throughout; XW band approx. 160mm thick. Defects: Almost nil or rare.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										

REMARKS _____

LOGGED BY
BW / DC2

Project Name	Moreton Bay Rail Link (MBRL)		
Project No	FG5921	Date	19/05/11
Borehole No	BH 23	TMR H No	11034
Location	Kippa-Ring Station	Start Depth (m)	9.00
Detail	Structure	Finish Depth (m)	14.89
Chainage	12412	Submitted By	BW
Remarks			

