COPYRIGHT NOTICE

This geotechnical log and its associated data (the Document) is licensed by the Queensland Department of Transport and Main Roads under the <u>Creative Commons Attribution 4.0 Licence</u> (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

BH53 **BOREHOLE No** <u>1</u> of <u>2</u> SHEET

REFERENCE No

H11092 **PROJECT** Moreton Bay Rail Link Brays Road Rail Bridge 5, Centre Pier, Ch.4200 COORDINATES 501300.6 E; 6985657.1 N LOCATION PROJECT No_FG5921_____ DATE STARTED 6/7/11 GRID DATUM MGA94 Zone 56 SURFACE R.L. __7.40m_ PLUNGE ______ DATE COMPLETED 6/7/11 JOB No 250/120/3 HEIGHT DATUM AHD BEARING DRILLER R&D Drilling Pty Ltd R.L. RQD INTACT DEFECT BORING ADDITIONAL DATA STRENGTH **SPACING** ()% (m) DEPTH (m) MATERIAL AND GRAPHIC SAMPLE WASHER CORE D **DESCRIPTION** TESTS SAMPL WEAT

WEAT

WEAT

VL

VL

VL

VL

S000

S000

S000 CORF **TEST RESULTS** nsc REC % 0 Silty CLAY (Alluvial) Non-destructive drilling up to 1.5m. (Based on Driller's logs only) Mottled grey red yellow, moist, stiff to very High plasticity. Minor organic contents; iron staining in (CH) 5,6,8 SPT Α -2 5.20 Silty CLAY (Residual) Yellow grey, moist, mainly very stiff to hard. FG5921 MORETON BAY RAIL LINK.GPJ <<DrawingFile>> Datgel CPT Tool gINt Add-In 06/10/2011 14:46 5.8.13 (CI-В SPT Medium to high plasticity. N=21 -3 Contains ferrigenous nodules sizing <30mm. 4.10 SANDSTONE Fine to medium grained, massive, poorly cemented sedimentary rock mainly comprising of sand sized particles

XW: Generally exhibits engineering properties of grey, moist, fine to medium grained medium dense to very dense 7.12.18 SPT N=30 XW clayey sand. 10,15,30/140mm D SPT Contains subangular, high strength N > 50quartzitic gravel sizing <15mm. - 5 2.20 HW: Grey, moist, fine to medium grained, very dense silty sand. 5,8,16 Ε SPT Contains subangular high strength N = 24quartzitic gravel sizing <40mm. - 6 HW 18.30/130mm.HB F SPT N>50 LIB_01A.GLB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY 0.40 (90) MW: Orange yellow to white grey, fine grained, massive with slightly laminated, low to medium strength. Is(50) = 0.42MPaBecoming grey and laminated below 9m. Is(50) = 0.45MPaIs(50) = 0.22MPa- 8 Is(50) = 0.28MPa100 MW (86) Is(50) = 1.06MPa- 9 Is(50) = 0.99MPa0 100 (See over) LOGGED BY REMARKS_ BW



ENGINEERING BOREHOLE LOG

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

PROJECT Moreton Bay Rail Link COORDINATES 501300.6 E; 6985657.1 N LOCATION Brays Road Rail Bridge 5, Centre Pier, Ch.4200 PROJECT No_FG5921_____ DATE STARTED 6/7/11 GRID DATUM MGA94 Zone 56 SURFACE R.L. __7.40m_ PLUNGE ______ DATE COMPLETED 6/7/11 JOB No 250/120/3 HEIGHT DATUM AHD BEARING DRILLER R&D Drilling Pty Ltd R.L. RQD INTACT DEFECT BORING ADDITIONAL DATA STRENGTH **SPACING** ()% (m) DEPTH (m) MATERIAL AND SAMPLE CORER WASHER CORE DE CORE **DESCRIPTION** USC | WEAT | WEA SAMPL TESTS CORF **TEST RESULTS** REC % 10 (92) SANDSTONE MW MW: (Cont'd) -3.10 SW: Grey, fine grained, laminated medium to high strength. Defects: - Drilling-induced lamination partings @ 15° Is(50) = 1.81MPa (2/m)100 SW (90)Defect surfaces are medium to wide spaced, irregular, slightly rough, open and Is(50) = 2.64MPa Is(50) = 2.44MPa 0 -5.10 FGS921 MORETON BAY RAIL LINK.GPJ <<DrawingFile>> Datgel CPT Tool glNt Add-in 06/10/2011 14:46 MUDSTONE Fine grained sedimentary rock mainly Is(50) = 0.62MPa Is(50) = 1.00MPa comprising of mud sized particles 100 0 SW: Black, laminated, high strength. (98) Is(50) = 0.78MPaх Is(50) = 1.30MPaContains thin bands of coal below 12.5m, approx. 120mm thick. Displays dessicated structure on drying. Defects: - Drilling-induced lamination partings and fractures @ 5-10° (2/m)
- Joint @ 10-15° (2-3/m) SW Is(50) = 1.13MPa 100 Is(50) = 0.73MPa0 (90)Defect surfaces are medium to wide spaced, planar, smooth and slightly rough, close with clay infill. Is(50) = 0.96MPaIs(50) = 1.11MPaх о DD = 2.40t/m³; WD = 2.46t/m³; MC = 3%; UCS - 22.8 Mpa UCS -8.54 100 Borehole terminated at 15.94m LIB_01A.GLB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY 9 LOGGED BY REMARKS_ BW

Project Name	Moreton Bay Rail Link (MBRL)	The second secon	CHEST STATES AND A STATE OF THE STATES
Project No	FG5921	Date	06/07/11
Borehole No	BH 53	TMR H No	
Location	Brays Road Rail Bridge	Start Depth (m)	7.00
Detail	Structure	Finish Depth (m)	15.94
Chainage	4200 Approx	Submitted By	BW
Remarks			
03.2		0,0	
		1100	
812 812 19			
11.50 MA	The state of the s	on on	
			3
\$1 31 31	The state of the s		hylin
	(minutka <mark>s</mark> szobaldintély	granders (g)	
Sian		350	
			-}
0 100	200 300 400	500 600	mm
	SCALE 1:5		