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ENGINEERING BOREHOLE LOG

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

BOREHOLE No _____BH16 ___

SHEET ___1__ of __2__

REFERENCE No ____H11026 ___

Moreton Bay Rail Link **PROJECT** COORDINATES 503011.6 E; 6986682.7 N LOCATION Cut 6, Ch.6260 PROJECT No <u>FG5921</u> ____ DATE STARTED 6/5/11 GRID DATUM MGA94 Zone 56 SURFACE R.L. 30.10m PLUNGE PLUNGE JOB No 250/120/3 HEIGHT DATUM AHD BEARING DATE COMPLETED 6/5/11 DRILLER R&D Drilling Pty Ltd R.L. RQD INTACT DEFECT ADDITIONAL DATA STRENGTH **SPACING** ()% (m) DEPTH (m) MATERIAL AND SAMPLE **DESCRIPTION** SAMPL TESTS AUGER CASIN CORE CORF **TEST RESULTS** OSC REC % 0 30.10 ______ ____ -Based on Driller's logs only Silty CLAY (Topsoil) 29.90 Dark grey, moist, soft. Sandy CLAY (Residual) Cream white with orange red mottles, fine to medium grained, moist, stiff to very stiff. High plasticity. (CH) 2,3,14 SPT Iron stained nodules. 28.10 18,10/0mm,HB **Quartz Feldspathic SANDSTONE** SP1 N>50 Medium to coarse grained, massive, poorly cemented sedimentary rock mainly FG5921 MORETON BAY RAIL LINK.GPJ <<DrawingFile>> Datgel CPT Tool gINt Add-In 06/10/2011 14:45 comprising sand-sized particles (93) HW: Red with white, black and red Is(50) = 0.33MPamottles, medium grained, very low to low Is(50) = 0.30MPaHeavily FeSt zone strenath. Exhibits engineering properties of silty sand Becoming red and grey white, fine to medium grained, massive, slightly laminated, very low to low strength. Is(50) = 1.95MPa100 (100) Contains frequent thin bands of coarse grained sand sizing <2mm. Defects: - Drilling-induced partings @ 5-10° (2-9/m) Subhorizontal joint @ 20° (1-2/m) HW - 5 Defect surfaces are mainly wide to very 100 widely spaced, irregular, planar, slightly (93)Is(50) = 0.27MPaIs(50) = 0.38MParough, open, clean and iron stained. 0 - 6 Becoming yellow below 5m. Is(50) = 0.19MPaIs(50) = 0.29MPaLIB_01A.GLB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY 100 (71)Is(50) = 1.02MPaIs(50) = 0.91MPa22.10 -8 MW:Green white with black, red brown, grey and white mottles, fine to coarse grained, massive, low strength. 100 Coarse grained lithic sandstone below Is(50) = 0.27MPaIs(50) = 0.15MPa9 8m Coarse grained lithic SSt 450mm thick MW - 9 PROPOSED RAIL LEVEL (See over) 100 LOGGED BY REMARKS___ BW / JSM



ENGINEERING BOREHOLE LOG

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

BH16 **BOREHOLE No** _2_ of _2_ SHEET H11026

REFERENCE No

Moreton Bay Rail Link **PROJECT** COORDINATES 503011.6 E; 6986682.7 N LOCATION Cut 6, Ch.6260 PROJECT No_FG5921_____ DATE STARTED 6/5/11 GRID DATUM MGA94 Zone 56 SURFACE R.L. <u>30.10m</u> PLUNGE _____ DATE COMPLETED 6/5/11 DRILLER R&D Drilling Pty Ltd JOB No 250/120/3 HEIGHT DATUM AHD BEARING R.L. RQD INTACT DEFECT ADDITIONAL DATA STRENGTH **SPACING** ()% (m) DEPTH (m) WEATHERN
WEA MATERIAL AND GRAPHIC SAMPLE DESCRIPTION TESTS 20.10 SANGER COASING RELIGIO CORF **TEST RESULTS** REC % 10 (1) Quartz Feldspathic SANDSTONE MW: (Cont'd) Is(50) = 0.16MPa Is(50) = 0.14MPa DD = 1.97t/m³; MC = 7.8%; Grey white, red and yellow scattered, fine UCS grained, clay matrix. UCS=1MPa Iron staining throughout. Defects: - Drilling-induced partings @ 5-10° (3/m) 100 Defect surfaces are medium to widely (87) spaced, irregular and steeped, rough, open and clean, iron stained. Is(50) = 0.18MPa0 FGS921 MORETON BAY RAIL LINK.GPJ <<DrawingFile>> Datgel CPT Tool gINt Add-In 06/10/2011 14:45 100 (100) Is(50) = 0.16MPaMW Is(50) = 0.10MPa0 DD = 2.10t/m³; MC = 6.3%; UCS=3.21MPa UCS 100 Is(50) = 0.52MPa Is(50) = 0.75MPa х 0 (100)Is(50) = 0.27MPa Is(50) = 0.23MPa 0 100 (100)Is(50) = 0.17MPa LIB_01A.GLB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY Is(50) = 0.24MPa0 Fine grained SSt Is(50) = 0.33MPa100 12.65 1s(50) = 0.40MPaBorehole terminated at 17.45m 9 LOGGED BY REMARKS_ BW / JSM



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Project Name	Moreto	n Bay Rail Li	nk (MBRL)		
Project No	FG5921	· · · · · · · · · · · · · · · · · · ·		Date	06/05/11
Borehole No	BH 16			TMR H No	11026
Location	Cut			Start Depth (m)	
Detail	Cut			Finish Depth (m)	
Chainage	Approx			Submitted By	BW
Remarks					
				0 8 0 8	SE S
0 100) 2	00 30	0 400	500 600)mm

CORE PHOTO LOG
DEPARTMENT OF TRANSPORT & MAIN ROADS
Geotechnical Branch
35 Butterfield Street, HERSTON QId 4006

GEOT043/1

SCALE 1:5



Project Name	Moreton Bay Rail Link (MBRL)		
Project No	FG5921	Date	06/05/11
Borehole No	BH 16	TMR H No	11026
Location	Cut	Start Depth (m)	2.5
Detail	Cut	Finish Depth (m)	17.45
Chainage	Approx	Submitted By	BW
Remarks			

