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FG5798 TRAVEL TIME SIGNAGE STH COAST

ENGINEERING BOREHOLE LOG

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

____BH4____ BOREHOLE No <u>1</u> of <u>2</u> SHEET REFERENCE No __<u>11234</u>__

TRAVEL TIME SIGNAGES FOUNDATION INVESTIGATION (SOUTH COAST REGION) - STAGE 3 **PROJECT** LOCATION Nerang Exit 69 N/B COORDINATES 533873.9 E; 6907526.8 N PROJECT No _FG5798 _ _ _ _ DATE STARTED _1/11/11 GRID DATUM MGA94 SURFACE R.L. <u>12.53m</u> PLUNGE ____ JOB No HEIGHT DATUM _AHD __ BEARING _ _ _ _ DATE COMPLETED _1/11/11__ DRILLER Terratest Drilling Pty Ltd R.L. RQD INTACT DEFECT ADDITIONAL DATA STRENGTH **SPACING** ()% (m) DEPTH (m) MATERIAL AND GRAPHIC SAMPLE DESCRIPTION SAMPL TESTS CORF TEST RESULTS nsc REC % 0 TOPSOIL Based on Driller's logs only Brown to grey Minor organic content. 11.53 Gravelly SAND (ENGINEERED FILL) 10,10,10 SPT Grey, dry, medium dense. N=20 CL Gravel sizing up to 40mm. 10.78 **GREYWACKE** RGN.GPJ <<DrawingFile>> Datgel CPT Tool glNt Add-in 25/01/2012 17:21 -2 Fine to medium grained, massive, low grade metamorphic rock 10,18,24 SPT XW: Generally exhibits the engineering N=42 properties of pale grey to grey, dry, dense silty sand. xw Becoming clayey sand with depth. 22.29.16 С SPT N=45 9.03 HW: Grey, moist, hard, sandy gravelly clay 30/50mm High plasticity; frequent high strength rock N>50 fragments sizing up to 50mm. HW -5 21,30/100mm Ε SPT N>50 7.23 (93) SW: Grey to dark grey, foliated, high to very high strength. Is(50) = 14.63MPa 1s(50) = 3.24MPa0 Interbedded with argillite. J @ 75-80°, CInf 6 Defects; Is(50) = 6.24MPa - Joints @ 75-80° (1-2/m) - Joints @ 30-35° (2/m) ls(50) = 1.68MPa0 - Minor calcite veins @ 70-75° (1/m) 100 Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY (95) Defect surfaces are planar, slighly rough, Argillite I/B open, occasionally with clay infill and iron Is(50) = 6.91MPa Is(50) = 2.86MPa 0 SW Argillite I/B Is(50) = 8.60MPa100 ls(50) = 1.76MPa0 (85) Is(50) = 3.71MPaХ Is(50) = 2.37MPa; ** LIB_01A.GLB L -CA VN - CA VN Is(50) = 2.08MPa100 Water loss Is(50) = 4.66MPa 9 O (80) LOGGED BY REMARKS ** Failed along pre-existing defect surface LD/AD



QLD_DMR_LIB_01A.GLB_Log_A_ENGINEERING BOREHOLE LOG W LITHOLOGY FG5798 TRAVEL TIME SIGNAGE STH COAST RGN. GPJ <<DrawningFile> Datgel CPT Tool gINt Add-in 2501/2012 17:21

ENGINEERING BOREHOLE LOG

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

BOREHOLE No _____BH4____

SHEET __2__ of __2__

REFERENCE No ____11234____

PROJECT	TRAVEL TIME SIGNAGES FOUNDATION INVESTIGATION (SOUTH COAST REGION) - STAGE 3											
LOCATION	Nerang Exit 69 N/B COORDINATES 533873.9 E; 6907526										26.8 N	
PROJECT No	T No <u>FG5798</u>			SURFACE R.L. <u>12.53m</u> PLUNGE			DATE STARTED _1/11/11 G			/11 GRID DATUM <u>MGA94</u>	GRID DATUM MGA94	
JOB No	B No			HEIGHT DATUM <u>AHD</u> BEARING _			DATE COM	MPLETED _	<u> 1/11/</u>	DRILLER Terratest [ril <u>ling Pty Lt</u> o	
R.L. (m) HE DE	AUGER CASING WASH BORING	RQD ()% CORE REC%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	INTACT STRENGTH ボデェショミゴ	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	
- - - - - - 11 - 1.23		100		ARGILLITE Fine to medium grained, foliated, low grade metamorphic rock SW: Dark grey to black, thinly foliated, high to very high strength. Defects: - Occasional foliation partings <45° (1-2/m) - Drilling-induced breaks <20° (1/m)		sw				$ \begin{bmatrix} J @ 75-80^{\circ} (1/m) \\ J @ 10-15^{\circ} (1/m) \end{bmatrix} $	Pa o - Pa o - - - Pa x -	
-12 -13 -13 -14 -15 -16 -17 -17 -18 -19 -19	** F	iled along	Die	evisting defect surface						LOGGED BY		
REMARKS ** Failed along pre-existing defect surface										_ LOGGED BY		

Project: TRAVEL TIME SIGNAGE (SOUTH COAST)

Borehole No: **BH4**Start Depth: 5.30m
Finish Depth: 11.30m
Project No: FG5798

H No:



