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# ENGINEERING BOREHOLE LOG

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

BOREHOLE No	<b>BH9</b>
SHEET	1 of 2
REFERENCE No	<b>11239</b>

PROJECT TRAVEL TIME SIGNAGES FOUNDATION INVESTIGATION (SOUTH COAST REGION) - STAGE 3  
 LOCATION Nerang Exit 69 S/B COORDINATES 533932.5 E; 6907422.7 N  
 PROJECT No FG5798 SURFACE R.L. 13.59m PLUNGE \_\_\_\_\_ DATE STARTED 31/10/11 GRID DATUM MGA94  
 JOB No \_\_\_\_\_ HEIGHT DATUM AHD BEARING \_\_\_\_\_ DATE COMPLETED 31/10/11 DRILLER Terratest Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	INTACT STRENGTH							DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS	
							USC	WEATHERING	EH	VH	IM	JL	VL					EL
0	13.59				<b>ROAD PAVEMENT</b> Asphalt, concrete and roadbase.												Based on Driller's logs only	
1	12.69			A	<b>Clayey Sandy GRAVEL (ENGINEERED FILL)</b> Brown to black, moist, medium dense.	(CH)											16,12,14 N=26	SPT
2				B	Subangular to angular high strength rock fragments sizing up to 40mm; fine grained sand.	(CH)											14,15,8 N=23	SPT
3	10.84			C	<b>Silty CLAY (ALLUVIAL)</b> Pale grey to mottled orange, moist, stiff to very stiff. Medium to high plasticity.	(CL)											6,7,9 N=16	SPT
4				D		(CL)											3,5,8 N=13	SPT
5	8.84			E	Contains gravels up to 8 mm	XW											12,15,22 N=37	SPT
6	7.84			F	<b>ARGILLITE</b> <b>Fine grained, foliated, low grade metamorphic rock</b> XW: Generally exhibits the engineering properties of dark grey to mottled brown, moist, hard silty clay with occasional gravel and rock fragments. Traces of fine sand in parts.	HW											29,30/140mm N>50	SPT
7	6.29			G	<b>HW:</b> Dark grey to black, moist, hard gravelly sandy clay.												29,30/50mm N>50	SPT
8			(46)		High plasticity; high strength rock fragments sizing up to 30mm. <b>METAGREYWACKE</b> <b>Fine grained, low grade metamorphic rock</b> MW: Light brown to grey, foliated, medium to high strength.	MW											Is(50) = 1.89MPa; ** Is(50) = 5.74MPa; **	x x
9	4.49		100 (0)		Minor argillite interbeds. Defects: - Joints @ 50-55° (4/m) - Joints @ 75° (2/m) Defect surfaces are planar, open with clay infill.	SW											Is(50) = 4.05MPa Is(50) = 2.49MPa	x o
10	3.59		100 (65)		<b>ARGILLITE SW:</b> (See over)												Is(50) = 3.55MPa	o

REMARKS \*\* Failed along pre-existing defect surface

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# ENGINEERING BOREHOLE LOG

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

BOREHOLE No	<u>BH9</u>
SHEET	<u>2</u> of <u>2</u>
REFERENCE No	<u>11239</u>

PROJECT TRAVEL TIME SIGNAGES FOUNDATION INVESTIGATION (SOUTH COAST REGION) - STAGE 3  
 LOCATION Nerang Exit 69 S/B COORDINATES 533932.5 E; 6907422.7 N  
 PROJECT No FG5798 SURFACE R.L. 13.59m PLUNGE \_\_\_\_\_ DATE STARTED 31/10/11 GRID DATUM MGA94  
 JOB No \_\_\_\_\_ HEIGHT DATUM AHD BEARING \_\_\_\_\_ DATE COMPLETED 31/10/11 DRILLER Terratest 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
10	3.59					<b>ARGILLITE SW: (Cont'd)</b> Light grey, massive, high strength.  Minor metagreywacke interbeds.  Defects: - Joints @ 50-55° (2/m) - Joints @ 75° (1/m)							Js 55°, Clnf  Is(50) = 7.40MPa Is(50) = 2.92MPa  Is(50) = 8.99MPa Is(50) = 6.26MPa	x o  x o		
11	2.09			100									Is(50) = 10.86MPa Is(50) = 4.00MPa	x o		
12						Defect surfaces are planar, open, slightly rough, occasionally with clay infill. Borehole terminated at 11.5m										
13																
14																
15																
16																
17																
18																
19																
20																

REMARKS \*\* Failed along pre-existing defect surface

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Project: **TRAVEL TIME SIGNAGE (SOUTH COAST)**

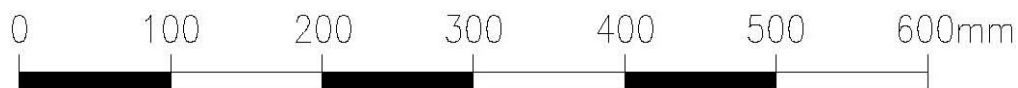
Borehole No: **BH9**

Start Depth: 7.30m

Finish Depth: 11.50m

Project No: FG5798

H No:



SCALE 1:5

F:GEOT043/1