Queensland Government
Department of Main Roads

ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/5-2009

BOREHOLE No BH094
SHEET 1 of 2
REFERENCE No H10736

PROJECT BRUCE HIGHWAY (COOROY - CURRA) SECTION A GEOTECHNICAL INVESTIGATION
LOCATION Cut 10A - Northern Interchange Roundabout
COORDINATES 487003.3 E; 7080663.6 N
PROJECT No FG5825 SURFACE R.L. 135.85m PLUNGE DATE STARTED 27/5/10 GRID DATUM MGA94
JOB No 128/10A/901 HEIGHT DATUM AHD BEARING DATE COMPLETED 27/5/10 DRILLER R & D Drilling

DEPTH (m)	R.L. (m)	RQD ( ) % / CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH (EH VH H M L VL EL)	DEFECT SPACING (mm) (20 60 200 600 2000)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	TESTS
0	135.85												
	135.45			**Silty CLAY** Red-brown, moist, firm, intermediate plasticity.		(CI)							
1			A	**PHYLLITE (XW):** Generally exhibits the engineering properties of pale brown to red, moist, hard, gravelly silt of low plasticity. Rock fabric visible throughout.		XW					9,13,21 N=34		SPT
	133.85												
2			B	**PHYLLITE (HW):** Generally exhibits the engineering properties of pale brown to slightly red, moist, hard, gravelly silt of low plasticity. Rock fabric visible throughout.							18,30/145mm N>50		SPT
3			C	From 3.32: Grading into very low strength rock. Foliation dips at 30-40°. Clayey broken zones throughout.		HW					30/125mm N>50		SPT
		(0)											
		100											
4		(0)											
		100											
		(0)											
		100											
5	130.75	(0)											
		100		**PHYLLITE (MW):** Grey with pale brown mottling, fine grained, foliated. Foliation dips at 20-30°. Defect spacing is close. Prominent defect set parallel to foliation. Defect surfaces are typically thinnly clay infilled or iron stained. Healed irregular fractures throughout.									
		(0)											
6													
		100									J, 20°, Pl, C, Clnf 5mm J, 20°, Pl, C, Clnf		
		(0)									CLy zone		
7						MW					CLy BZ		
		100											
		(0)									CLy BZ		
		100											
8		(16)											
		100									CLy BZ		
9		(0)									Is(50) = 0.03MPa		x
											J, 30°, Pl, O, Clnf 10mm BZ		
	126.50												
				PHYLLITE (SW): (See over)							BZ		
		100				SW							
10		(0)									CLy SZ, reahealed joints		

REMARKS

LOGGED BY JA

QLD_DMR_LIB_01.GLB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY FG5825 BRUCE HWY COOROY-CURRA SECTION A BHS.GPJ DWG58342.GDW Datgel CPT Tool gINt Add-In 22/06/2010 10:43

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BOREHOLE No BH094
SHEET 2 of 2
REFERENCE No H10736

PROJECT BRUCE HIGHWAY (COOROY - CURRA) SECTION A GEOTECHNICAL INVESTIGATION
LOCATION Cut 10A - Northern Interchange Roundabout COORDINATES 487003.3 E; 7080663.6 N
PROJECT No FG5825 SURFACE R.L. 135.85m PLUNGE DATE STARTED 27/5/10 GRID DATUM MGA94
JOB No 128/10A/901 HEIGHT DATUM AHD BEARING DATE COMPLETED 27/5/10 DRILLER R & D Drilling

DEPTH (m)	R.L. (m)	AUGER / CASING / ROCK ROLLER / CORE DRILLING	RQD ( )% CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH (EH VH H M L VL EL)	DEFECT SPACING (mm) (20 60 200 600 2000)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	TESTS
10	125.85				**PHYLLITE (SW) CONT'D:** Pale grey, fine grained, foliated. Foliation dips at 30°. Defect spacing is close. Prominent defect set parallel to foliation with irregular rehealed joints throughout. `Defect surfaces are typically thinly clay infilled or iron stained.		SW					CLy SZ, reahealed joints		
			93 (0)											
11			100 (0)									CLy BZ / SZ		
			100 (17)									BZ		
12			100 (0)									BZ		
			100 (0)									CLy BZ		
13			100 (0)									CLy BZ		
			100 (0)									HFZ		
14			88 (0)									CLy BZ		
												CLy seam		
15	120.39											Sharp contact at 40°		
					ANDESITE (MW): Grey with white flecks, fine grained, massive.		MW					Is(50) = 1.58MPa Is(50) = 1.39MPa		x o
	119.89		100 (0)		Defects are closely spaced. Defects are irregular, closed, iron stained or clay infilled.							CLy BZ		
16					**PHYLLITE (SW):** Pale grey, fine grained, foliated. Foliation dips at 30°. Defect spacing is close. Prominent defect set parallel to foliation with irregular rehealed joints throughout. `Defect surfaces are typically thinly clay infilled or iron stained.		SW							
			100 (0)									CLy seam		
17	118.10		100									CLy BZ		
18					Borehole terminated at 17.75m									
19														
20														

REMARKS

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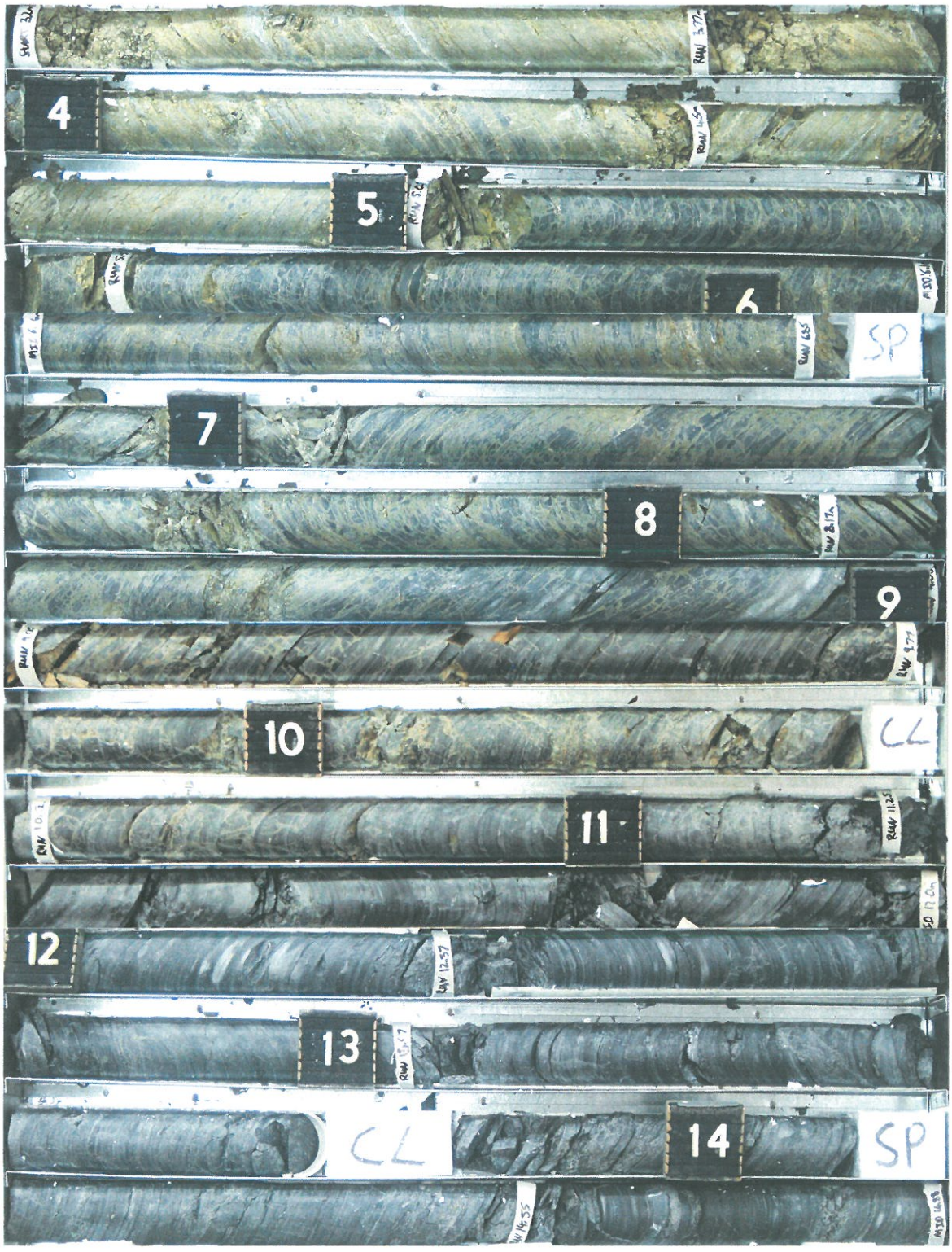
QLD_DMR_LIB_01.GLB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY FG5825 BRUCE HWY COOROY-CURRA SECTION A BHS.GPJ DWG58342.GDW Datgel CPT Tool gINt Add-In 22/06/2010 10:43

Project: **Bruce Highway Upgrade (Cooroy – Curra) Section A**

Borehole No: **BH 94**

Start Depth: 3.20m
Finish Depth: 17.75m
Project No: FG5825
H No: 10736



0 100 200 300 400 500 600mm

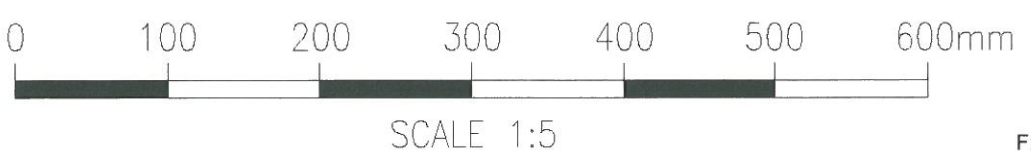
SCALE 1:5

F:GEOT043/1

Project: **Bruce Highway Upgrade (Cooroy – Curra) Section A**

Borehole No: **BH 94**

Start Depth: 3.20m
Finish Depth: 17.75m
Project No: FG5825
H No: 10736



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