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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH101
SHEET 1 of 3
REFERENCE No H10657

PROJECT BRUCE HIGHWAY (COOROY - CURRA) SECTION A GEOTECHNICAL INVESTIGATION
LOCATION Cut 10 COORDINATES 486719.2 E; 7080762.0 N
PROJECT No FG5825 SURFACE R.L. 139.01m PLUNGE _____ DATE STARTED 27/1/10 GRID DATUM MGA94
JOB No 128/10A/901 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 27/1/10 DRILLER Drillsure

DEPTH (m)	R.L. (m)	ALGER CUSC 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
0	139.01					Gravelly SILT (Colluvial?) Light brown, moist, stiff to very stiff.							
					A	Traces of organics.	(ML)					4,7,9 N=16	SPT
1	138.06				B	PHYLLITE (XW): Generally exhibits the engineering properties of brown to grey, moist, very stiff gravelly Silt.						9,11,13 N=24	SPT
2					C		XW					6,9,14 N=23	SPT
3	135.51				D	PHYLLITE (HW): Generally exhibits the engineering properties of light brown to grey, moist, hard, gravelly Silt.						17,25,25/130mm N>50	SPT
4					E	Rock fabric visible throughout.						25,25/60mm N>50	SPT
5					(8)	Foliated in parts at typically 30°.						Is(50) = 0.08MPa Is(50) = 0.14MPa	x o
6					100 (0)	5.2 - 6.0m: MW band.							
7					100 (0)		HW						
8												Is(50) = 0.09MPa	o
9					69 (0)								
10					71								

REMARKS Standpipe piezometer installed at base of hole. BH 101A drilled adjacent to BH101 with a standpipe piezometer installed at 6m.

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ENGINEERING BOREHOLE LOG

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SYMBOLS REFER FORM F:GEOT 017/5-2009

BOREHOLE No BH101

SHEET 2 of 3

REFERENCE No H10657

PROJECT BRUCE HIGHWAY (COOROY - CURRA) SECTION A GEOTECHNICAL INVESTIGATION

LOCATION Cut 10 COORDINATES 486719.2 E; 7080762.0 N

PROJECT No FG5825 SURFACE R.L. 139.01m PLUNGE DATE STARTED 27/1/10 GRID DATUM MGA94

JOB No 128/10A/901 HEIGHT DATUM AHD BEARING DATE COMPLETED 27/1/10 DRILLER Drillsure

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	VH	H	M	J	VL	EL				
10	129.01																		
					(0)	PHYLITE (HW): (Cont'd)		HW											
	128.39					PHYLITE (MW): Grey to slightly brown, fine grained, foliated. Foliation dips at 10 - 20°. Defects are generally close to medium spaced. Prominent defect set parallel to foliation. Defect spaces are generally clay infilled or iron stained.		MW										Is(50) = 0.12MPa	o
11					77 (13)														
12																			
13					100 (11)													Is(50) = 0.14MPa Is(50) = 0.35MPa	x o
																	Broken zone		
14	125.05					PHYLITE (SW): Pale grey, fine grained, foliated. Foliation dips at 20 - 30°. Defects are generally medium spaced. Prominent defect set parallel to foliation with another set at ~45°. Defect surfaces are typically clay infilled.		SW											
15					74 (9)													Is(50) = 0.10MPa Is(50) = 0.12MPa	x o
16					100 (20)													Clayey HW zone	
17																		Is(50) = 0.02MPa Is(50) = 0.62MPa	x o
18					100 (35)													Clayey broken zone	
19					100 (0)													Clayey broken zone	
20					100 (9)													Clayey broken zone	
																		Is(50) = 0.15MPa	x

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BOREHOLE No BH101

SHEET 3 of 3

REFERENCE No H10657

PROJECT BRUCE HIGHWAY (COOROY - CURRA) SECTION A GEOTECHNICAL INVESTIGATION

LOCATION Cut 10

COORDINATES 486719.2 E; 7080762.0 N

PROJECT No FG5825 SURFACE R.L. 139.01m PLUNGE _____ DATE STARTED 27/1/10 GRID DATUM MGA94

JOB No 128/10A/901 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 27/1/10 DRILLER Drillsure

DEPTH (m)	R.L. (m)	ALGER CASING WASH BORE 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
20	119.01					PHYLLITE (SW): (Cont'd)								
			100 (37)											
21			100 (55)										UCS= 2.1 MPa	UCS
													Is(50) = 0.42MPa	x
22													Is(50) = 0.26MPa	o
													UCS= 3.5 MPa	UCS
23			100 (0)				SW							
24														
25			70 (47)										Is(50) = 0.50MPa Is(50) = 0.30MPa	o x
	113.31		100										Is(50) = 0.19MPa	x
26						Borehole terminated at 25.7m								
27														
28														
29														
30														

REMARKS Standpipe piezometer installed at base of hole. BH 101A drilled adjacent to BH101 with a standpipe piezometer installed at 6m.

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5

Box 1

6

Box 1

7

Box 1

8

Core Loss 8.18 - 8.63

9

Core Loss 8.63 - 9.58

10

Core Loss 9.58 - 9.95

11

Core Loss 9.95 - 10.30

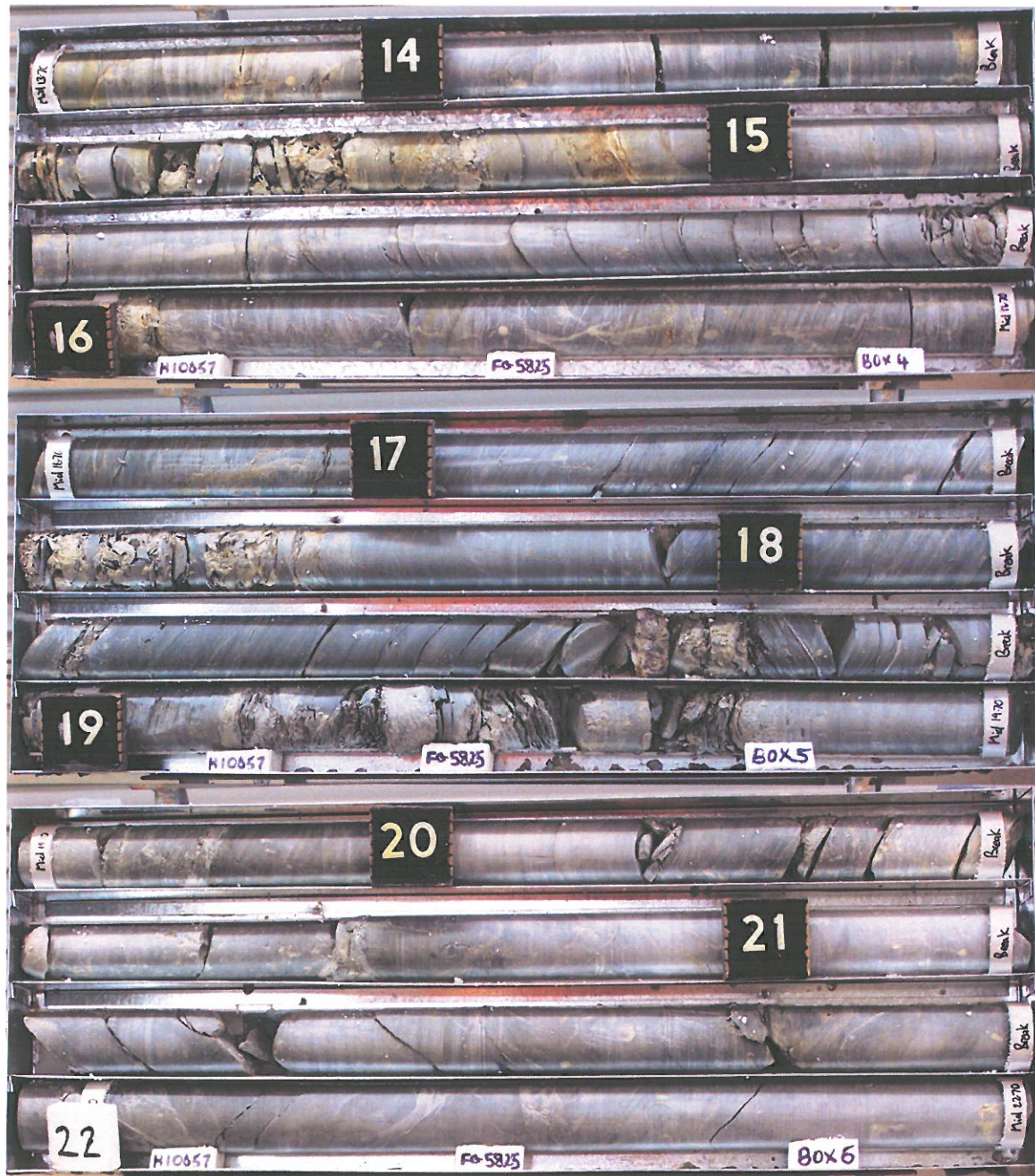
12

Core Loss 10.30 - 13.24

13

Core Loss 13.24 - 13.63

Project: **Bruce Highway Upgrade (Cooroy – Curra) Section A**
 Borehole No: **BH101**
 Start Depth: 4.70m
 Finish Depth: 25.70m
 Project No: FG5825
 H No: 10657



0 100 200 300 400 500 600mm

SCALE 1:5

F:GEOT043/1

Project: **Bruce Highway Upgrade (Cooroy – Curra) Section A**
Borehole No: **BH101**
Start Depth: 4.70m
Finish Depth: 25.70m
Project No: FG5825
H No: 10657



SCALE 1:5

F:GEOT043/1