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**Queensland
Government**

Department of
Main Roads

ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH106

SHEET 1 of 3

REFERENCE No H10688

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

LOCATION Cut 14 COORDINATES 484181.9 E; 7081226.9 N

PROJECT No FG5825 SURFACE R.L. 155.18m PLUNGE DATE STARTED 11/2/10 GRID DATUM MGA94

JOB No 128/10A/901 HEIGHT DATUM AHD BEARING DATE COMPLETED 15/2/10 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
0	155.18												
0.5					A	Silty Clay Brown to mottled red, moist, stiff. Intermediate plasticity; rock fabric visible in parts.	(CI)					4,5,7 N=12	SPT
1.5	153.68				B	PHYLLITE (XW): Generally exhibits the engineering properties of mottled pale grey to red brown, moist, hard, gravelly Silt. Quartz veins up to 50mm thick; rock fabric visible throughout.	XW					6,11,20 N=31	SPT
2.5					C							13,26,30/40mm N>50	SPT
3.0	152.18				(0)	PHYLLITE (HW): Brown, fine grained, foliated. Foliations are indistinct.	HW						
3.5					100	Crushed quartz throughout.							
4.0					(0)								
4.5	150.73				100								
5.0					(0)	PHYLLITE (MW): Brown, fine grained, foliated. Foliation is indistinct.	MW						
5.5					100								
6.0					(0)								
6.5					79	Defects are generally closely spaced. Defect sets dip at 10° and 60°. Defect surfaces are typically clay infilled.							
7.0					(14)								
7.5	148.38				100	Prominent quartz veining and clayey weathered zones.							
8.0					(22)								
8.5					100	PHYLLITE (MW - SW): Dark grey with distinctive light brown mottling, fine grained, foliated. Foliation typically dips at 10 - 30°.	MW-SW					Is(50) = 0.78MPa Is(50) = 0.90MPa	o x
9.0					(20)								
9.5					100								
10.0					(71)	Defects are generally medium spaced. Prominent defect set dipping parallel to foliation with other sets at 10° and 45°. Defect surfaces are typically clay infilled or iron stained.						UCS= 5.3 MPa Is(50) = 0.59MPa	UCS x
10.5					100								
11.0					(0)	Quartz veins throughout.							
11.5					(30)								
12.0					100							Is(50) = 0.52MPa Is(50) = 0.63MPa	x o
12.5													
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REMARKS Standpipe piezometer installed at base of hole.

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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH106

SHEET 2 of 3

REFERENCE No H10688

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

LOCATION Cut 14 COORDINATES 484181.9 E; 7081226.9 N

PROJECT No FG5825 SURFACE R.L. 155.18m PLUNGE _____ DATE STARTED 11/2/10 GRID DATUM MG94

JOB No 128/10A/901 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 15/2/10 DRILLER Drillsure

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD () %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS		SAMPLES TESTS
												EH	VH	
10	145.18		(0) 100		PHYLLITE (MW - SW): (Cont'd)							BZ		
11			(42) 100		11.0-11.2m: Clayey broken zone							CLy BZ		
12			(0) 100									Jt, 70°, Pl, C, Cln	Is(50) = 0.26MPa Is(50) = 0.62MPa	x o
13			(9) 100									Clay seam, 20°		
14			(22) 100									Clay seam	Is(50) = 0.09MPa Is(50) = 0.87MPa	o x
15			(56) 100				MW-SW					Jt, 30°, Pl, C, Clnf		
16			(66) 100										Is(50) = 1.32MPa Is(50) = 0.86MPa UCS = 2.2 MPa	x o UCS
17			(66) 100											
18			(0) 100		18.5-20.25m: Clayey broken zone with multiple quartz veins.								Is(50) = 0.69MPa Is(50) = 0.91MPa	x o
19			(0) 100									CLy BZ		
20			(0) 100											

REMARKS Standpipe piezometer installed at base of hole.

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

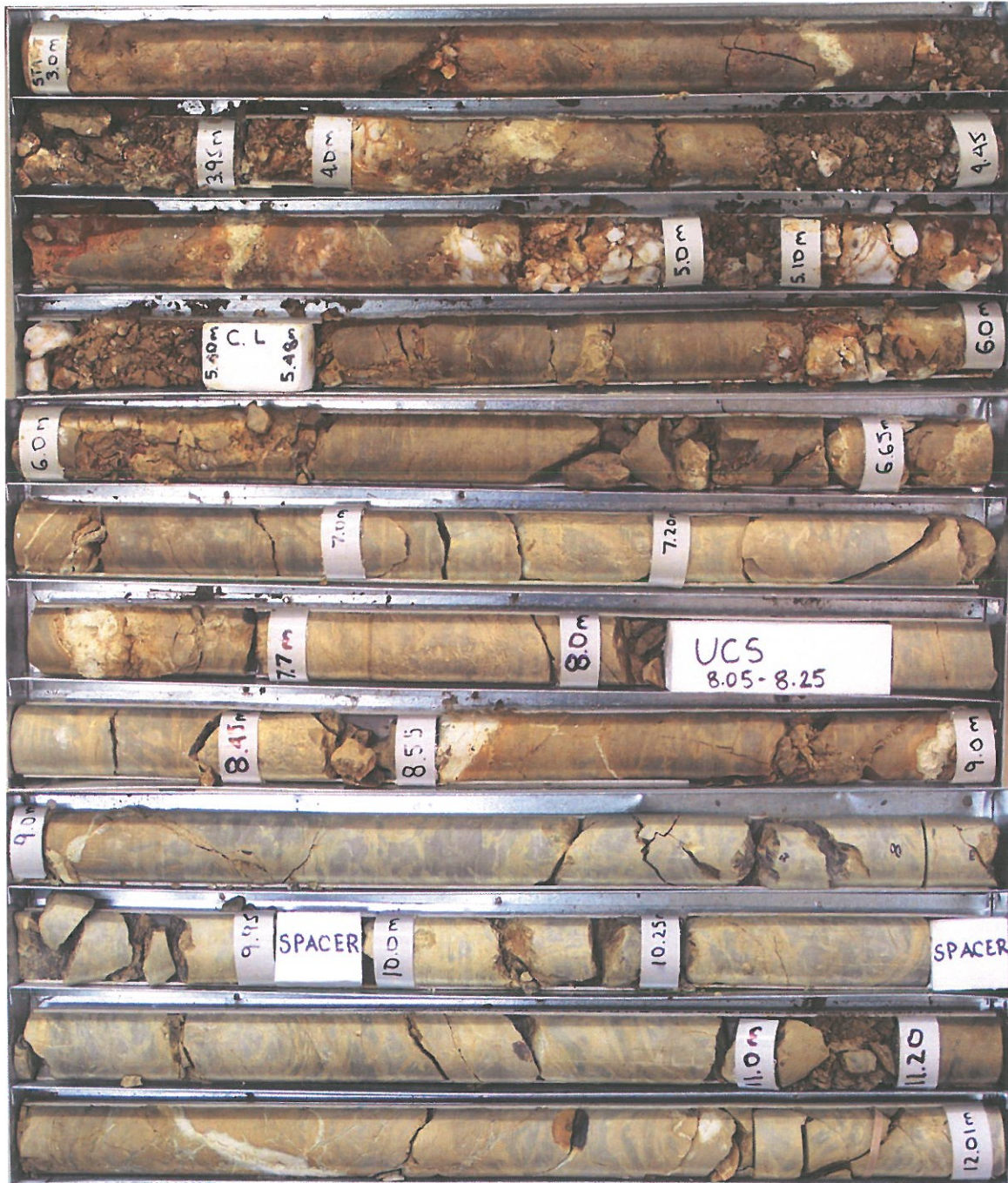
REFERENCE No H10688

JOB No 128/10A/901 HEIGHT DATUM AHD BEARING DATE COMPLETED 15/2/10 DRILLER Drillsure

[illegible]REMARKS Standpipe piezometer installed at base of hole. Borehole terminated at

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Project: **Bruce Highway Upgrade (Cooroy – Curra) Section A**
 Borehole No: **BH 106**
 Start Depth: 3.00m
 Finish Depth: 30.00m
 Project No: FG5825
 H No: 10688



SCALE 1:5

F:GEOT043/1

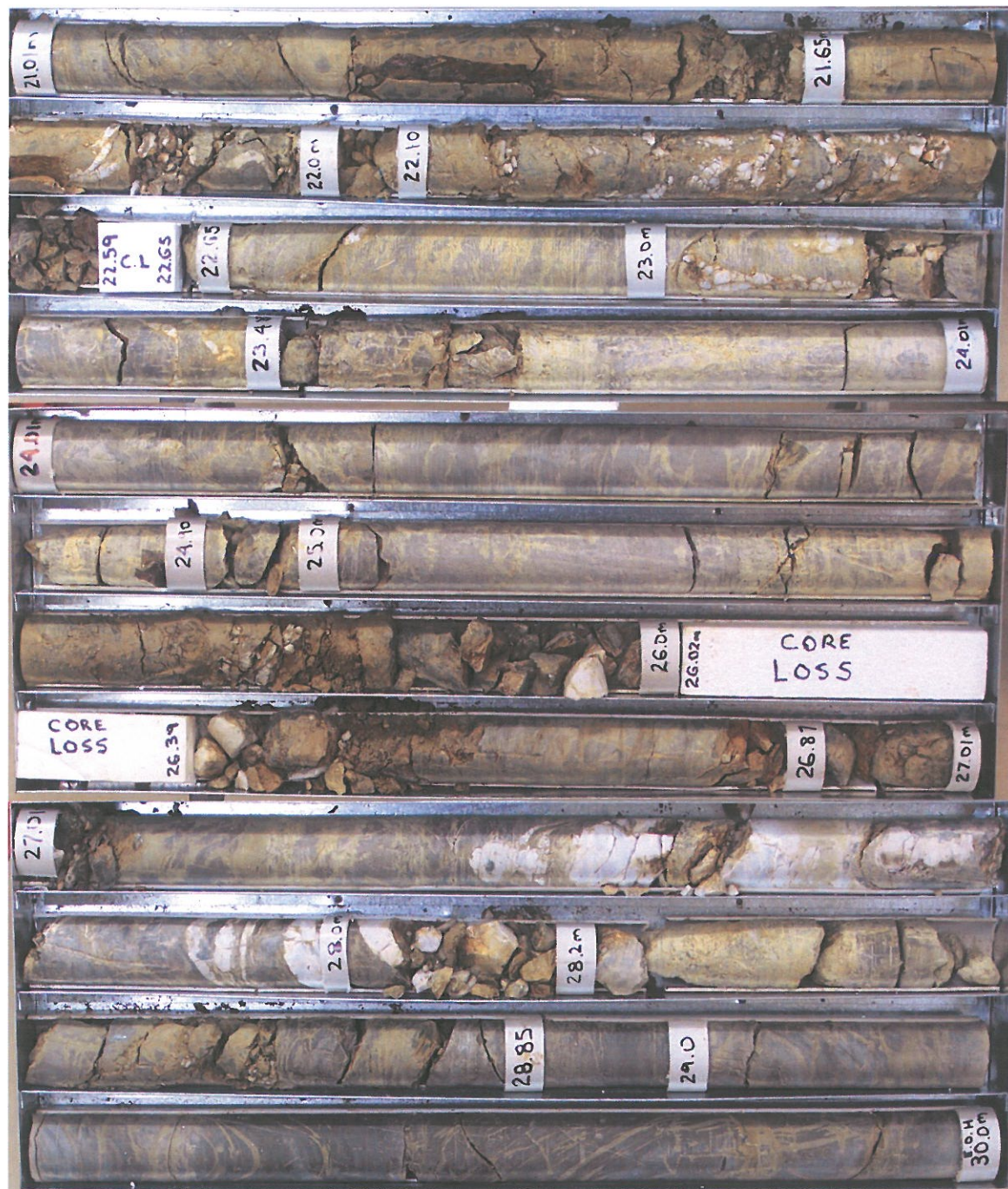
Project: **Bruce Highway Upgrade (Cooroy – Curra) Section A**
 Borehole No: **BH 106**
 Start Depth: 3.00m
 Finish Depth: 30.00m
 Project No: FG5825
 H No: 10688



SCALE 1:5

F:GEOT043/1

Project: **Bruce Highway Upgrade (Cooroy – Curra) Section A**
 Borehole No: **BH 106**
 Start Depth: 3.00m
 Finish Depth: 30.00m
 Project No: FG5825
 H No: 10688



SCALE 1:5

F:GEOT043/1