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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH102
SHEET 1 of 3
REFERENCE No H10674

PROJECT BRUCE HIGHWAY (COOROY - CURRA) SECTION A GEOTECHNICAL INVESTIGATION
LOCATION Cut 11 COORDINATES 486041.6 E; 7080762.7 N
PROJECT No FG5825 SURFACE R.L. 171.72m PLUNGE DATE STARTED 3/2/10 GRID DATUM MGA94
JOB No 128/10A/901 HEIGHT DATUM AHD BEARING DATE COMPLETED 4/2/10 DRILLER Drillsure

DEPTH (m)	R.L. (m)	UGER CUTTING WASHING 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	M	J	>	U	20	60				200	600	2000		
0	171.72					Silty CLAY Pale grey, moist, stiff. Intermediate plasticity; traces of organics.																		
1					A																7,5,5 N=10	SPT		
2	170.22				B	SANDSTONE (XW): Generally exhibits the engineering properties of pale orange with grey mottles, moist, very dense, clayey Sand. Medium grained.																27,30/40mm N>50	SPT	
3	168.72			(42)																				
4						MUDSTONE (XW): Generally exhibits the engineering properties of pale grey with red mottles, moist, hard, silty Clay. 4.18 - 4.55m: Zone of silty Clay with medium grained quartz sand.																	Is(50) = 0.03MPa Is(50) = 0.07MPa UCS = 0.2 MPa	x o UCS
5	167.15					PHYLLITE (XW - HW): Pale yellow with pale brown mottles, fine grained, foliated. Distinct foliations dipping at 10 - 20°. Defects are generally closely spaced. Prominent defect set dipping parallel to foliation with another set cross-cutting foliation at 45 - 55°. Defect surfaces are typically clay infilled. Veins and nodules of iron staining throughout.																		
6																								
7	164.91					PHYLLITE (MW): Brown, fine grained, foliated. Foliations dip at 10° - 20°. (Defect sets as above.)																		
8																								
9																								
10																								

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	BH102
SHEET	2 of 3
REFERENCE No	H10674

PROJECT **BRUCE HIGHWAY (COOROY - CURRA) SECTION A GEOTECHNICAL INVESTIGATION**
 LOCATION **Cut 11** COORDINATES **486041.6 E; 7080762.7 N**
 PROJECT No **FG5825** SURFACE R.L. **171.72m** PLUNGE _____ DATE STARTED **3/2/10** GRID DATUM **MGA94**
 JOB No **128/10A/901** HEIGHT DATUM **AHD** BEARING _____ DATE COMPLETED **4/2/10** DRILLER **Drillsure**

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH						DEFECT SPACING (mm)				GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS	
							Jt	Un	C	Cl	2mm	20	60	200	600	2000				
10	161.72		(54)	PHYLLITE (MW): (cont'd)													Clay seam, 35°			
			100 (32)														Jt, Un, C, Cl, 2mm	Is(50) = 0.24MPa	x	
			100 (44)															Is(50) = 0.04MPa		o
	157.86		100 (55)	PHYLLITE (SW): Dark grey, fine grained, foliated. Foliations steepening to 30° - 90°. Defects are generally close to medium spaced. Prominent defect set parallel to foliation. Defect surfaces are typically clean or thinly clay infilled.	MW													Is(50) = 0.23MPa		x
			100 (84)														Possible shear zone			o
			100 (43)			SW												Is(50) = 1.22MPa		x
			100 (44)															Is(50) = 0.46MPa		o
			100 (97)														QZ vein, broken			
																	QZ vein, broken			

REMARKS Standpipe piezometer installed at base of hole.

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Department of
Main Roads

ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH102

SHEET 3 of 3

REFERENCE No H10674

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

LOCATION Cut 11 COORDINATES 486041.6 E; 7080762.7 N

PROJECT No FG5825 SURFACE R.L. 171.72m PLUNGE DATE STARTED 3/2/10 GRID DATUM MGA94

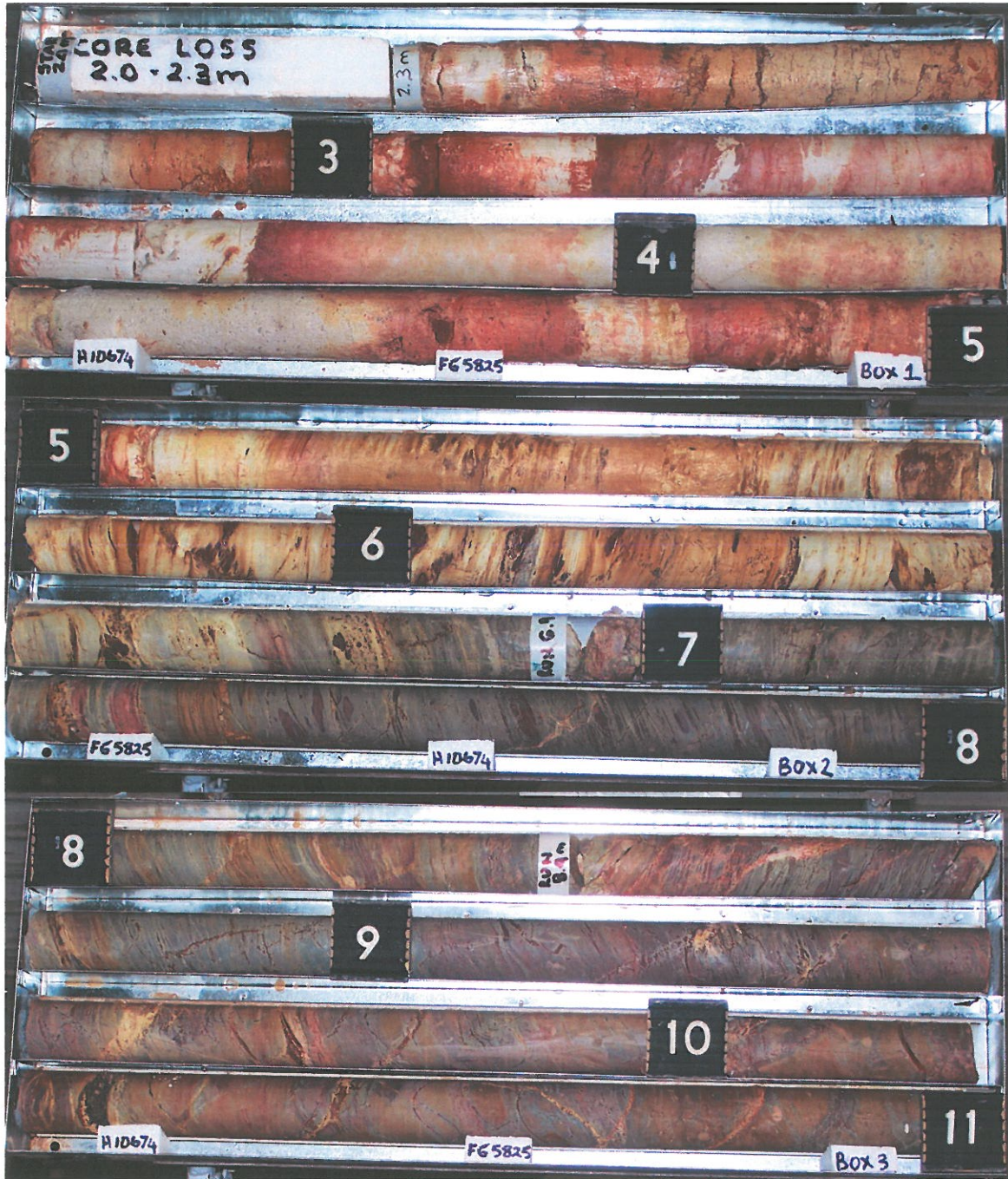
JOB No 128/10A/901 HEIGHT DATUM AHD BEARING DATE COMPLETED 4/2/10 DRILLER Drillsure

DEPTH (m)	R.L. (m)	USER 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
20	151.72				PHYLLITE (SW): (cont'd)	SW						Is(50) = 0.30MPa Is(50) = 1.11MPa	x o				
21			100 (52)									QZ vein, broken					
22			100 (0)									Shear zone and QZ veins	UCS= 3.3 MPa Is(50) = 5.02MPa	UCS x			
23			100 (57)										Is(50) = 0.09MPa	o			
24			100 (90)									Clayey shear zone	UCS= 1.3 MPa Is(50) = 0.36MPa	UCS x			
25	146.72		100		Borehole terminated at 25m												
26																	
27																	
28																	
29																	
30																	

REMARKS Standpipe piezometer installed at base of hole.

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Project: **Bruce Highway Upgrade (Cooroy – Curra) Section A**
Borehole No: **BH 102**
Start Depth: 2.00m
Finish Depth: 25.0m
Project No: FG5825
H No: 10674

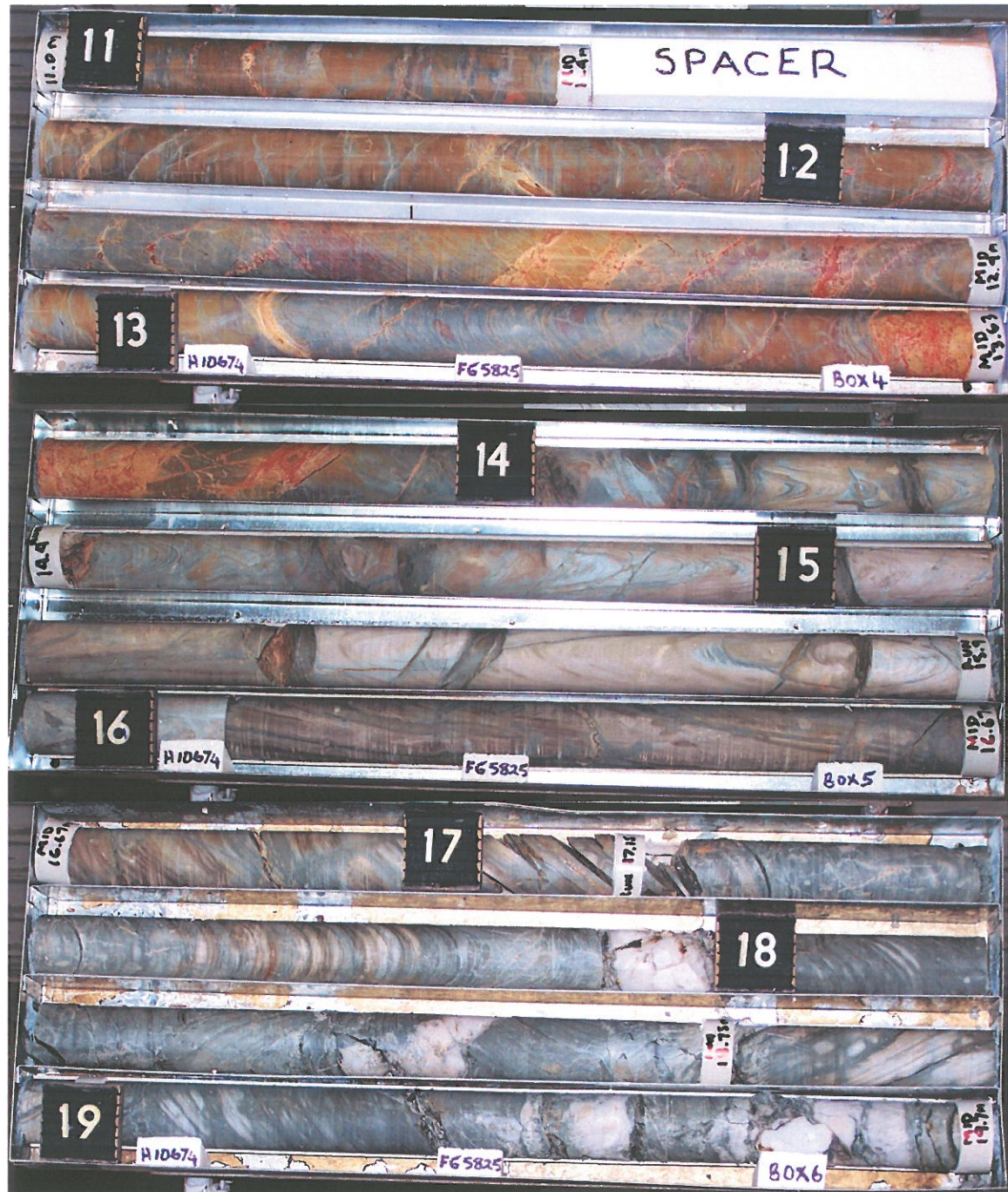


0 100 200 300 400 500 600mm

SCALE 1:5

F:GEOT043/1

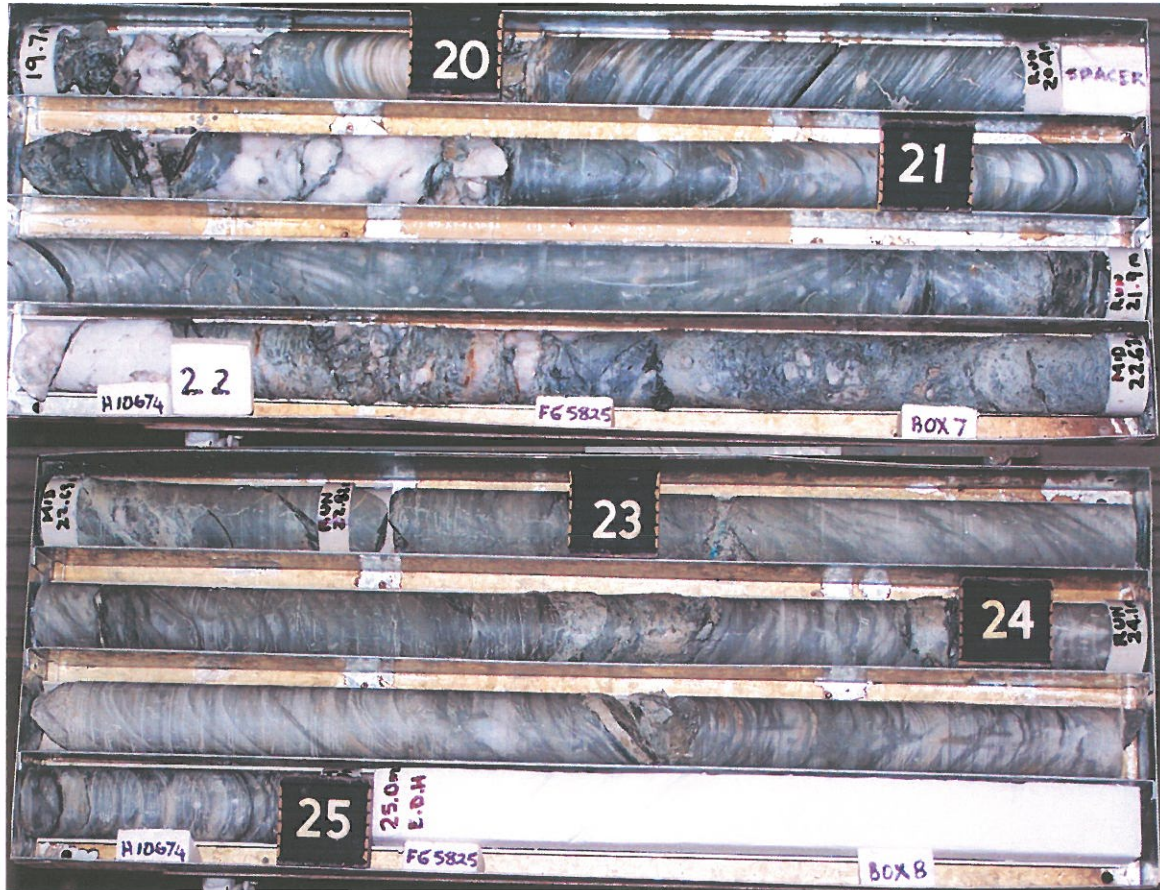
Project: **Bruce Highway Upgrade (Cooroy – Curra) Section A**
Borehole No: **BH 102**
Start Depth: 2.00m
Finish Depth: 25.0m
Project No: FG5825
H No: 10674



SCALE 1:5

F:GEOT043/1

Project: **Bruce Highway Upgrade (Cooroy – Curra) Section A**
Borehole No: **BH 102**
Start Depth: 2.00m
Finish Depth: 25.0m
Project No: FG5825
H No: 10674



SCALE 1:5

F:GEOT043/1