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ENGINEERING BOREHOLE LOG

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

BOREHOLE No	<u>BH C49</u>
SHEET	<u>1</u> of <u>2</u>
REFERENCE No	<u>H11136</u>

PROJECT Bruce Highway Upgrade (Cooroya to Curra) Section C
 LOCATION Cut 12 COORDINATES 471057.4 E; 7096066.2 N
 PROJECT No FG5799 SURFACE R.L. 77.30m PLUNGE _____ DATE STARTED 18/08/11 GRID DATUM MGA94
 JOB No 232/10A/2 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 18/08/11 DRILLER Caims Drilling Contract

DEPTH (m)	R.L. (m)	RQD (%)	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH					DEFECT SPACING (mm)			GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
							EH	VH	H	M	L	EL	20	60			
0	77.30		TOPSOIL														
0.7	77.10		SILTSTONE (XW): Generally exhibits engineering properties of a brown, moist, hard, medium to high plasticity silty clay. Iron staining throughout. Minor organics.	X												11,15,31 N=46	SPT
1.5				X													
2.2				X													
2.8				X													
3.5				X													
3.8				X													
3.8	74.05	(46)	SILTSTONE (MW): Grey/mottled brown, fine grained, subtly foliated, mainly high strength, indurated and/or slightly metamorphosed. Defects: -Joint at 5°-10° (1-2/m) -Joint at 40°-50° (1-2/m) -Joint at 75°-80° (1-2/m) Defects are generally medium spaced. Defect surfaces are planar or irregular, tight, open or close, thinly clay infilled, iron stained, or silicious infilled.	X											XW Clay Seam Is(50) = 0.29MPa		x
4.5				X													
5.2				X													
5.8		100		X													
6.2		(41)		X													
6.8				X													
7.5		100		X													
7.8		(38)		X													
8.2	69.55		ANDESITE (MW): Brown/grey, fine to medium grained, massive, varies from very low to very high strength.	X													
8.5				X													
8.8		100		X													
9.2	68.80	(24)	SILTSTONE (MW): Grey/mottled brown, fine grained, subtly foliated, mainly high strength, indurated and/or slightly metamorphosed. Defects: -Joint at 5°-10° (1-2/m) -Joint at 40°-50° (1-2/m) -Joint at 75°-80° (1-2/m) (See over)	X													
9.5				X													
9.8				X													
10.2		100		X													

QLD DMR LIB 01A G1B Log A ENGINEERING BOREHOLE LOG WITH LITHOLOGY FG5799 - BRUCE HWY UPGRADE SECTION C GP 1 DWG 46352 GDW Datepl CPT Tool dmn Add-in 12/12/2011 16:30

REMARKS _____

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ENGINEERING BOREHOLE LOG

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

BOREHOLE No	<u>BH C49</u>
SHEET	<u>2</u> of <u>2</u>
REFERENCE No	<u>H11136</u>

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C
 LOCATION Cut 12 COORDINATES 471057.4 E; 7096066.2 N
 PROJECT No FG5799 SURFACE R.L. 77.30m PLUNGE _____ DATE STARTED 18/08/11 GRID DATUM MGA94
 JOB No 232/10A/2 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 18/08/11 DRILLER Cairns Drilling Contract

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	V					EL
10	67.30		(37)			SILTSTONE (MW): Cont'd Defects are generally medium spaced. Defect surfaces are planar or irregular, tight, open or close, thinly clay infilled, iron stained, or silicious infilled.	XXXXXX													
11			100 (47)																	
12																				
13	63.40		100																	
14						Borehole terminated at 13.9m														
15																				
16																				
17																				
18																				
19																				
20																				

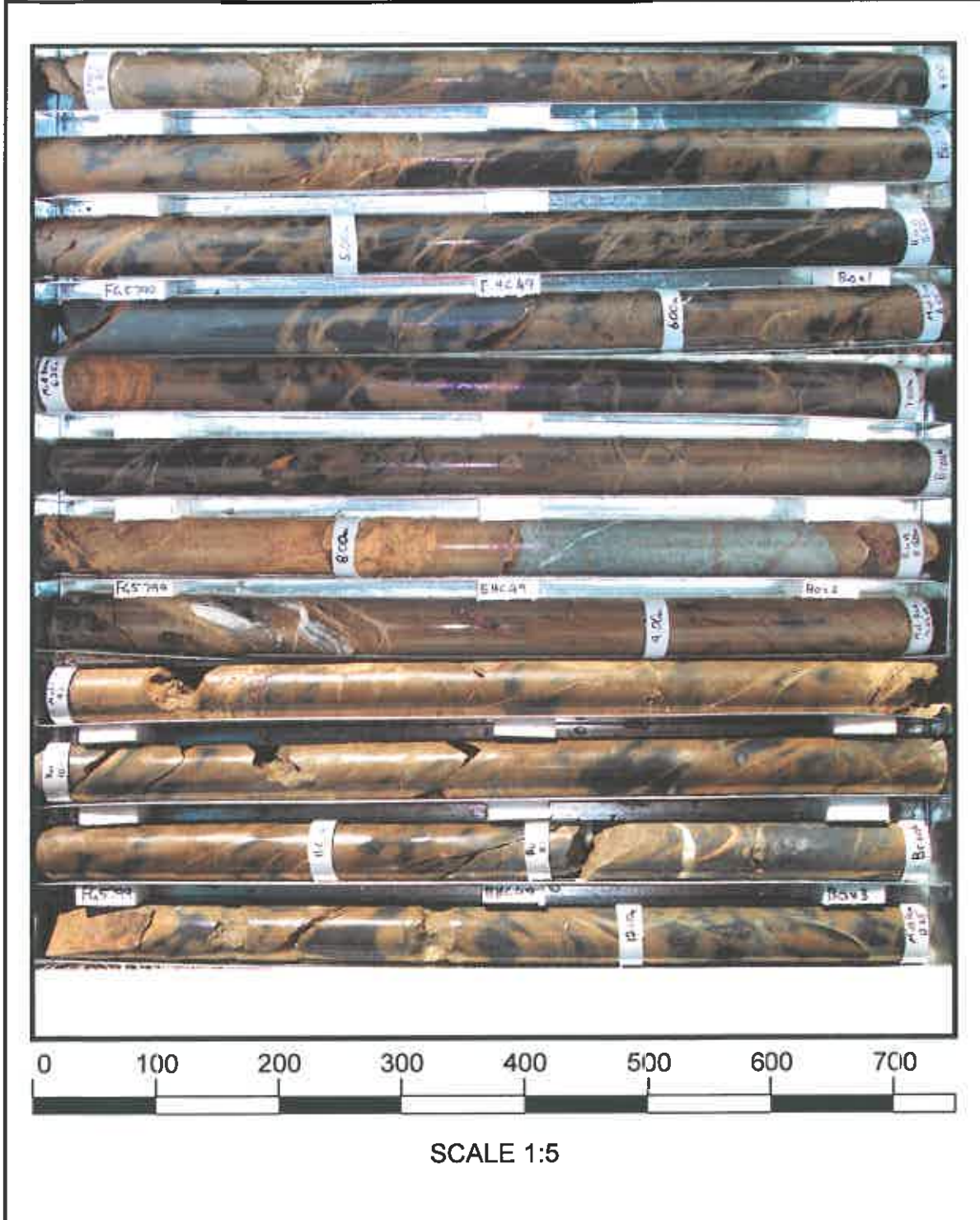
CLD_DMR_LIB_01A_GLB_1ag_A_ENGINEERING_BOREHOLE_LOG_LITHOLOGY_FG5799 - BRUCE HWY UPGRADE SECTION C.GPJ DWG#48352.GDW Digital CPT Tool (INK Add-In 12/12/2011 16:30)

REMARKS _____

LOGGED BY
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CORE PHOTO LOG - BH C49

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	08/09/2011
Details:	Cut 12	Start Depth (m):	3.25
Reference No.:	H11136	Finish Depth (m):	13.90



CORE PHOTO LOG - BH C49

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	08/09/2011
Details:	Cut 12	Start Depth (m):	3.25
Reference No.:	H11136	Finish Depth (m):	13.90



SCALE 1:5