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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH C24
 SHEET 1 of 2
 REFERENCE No H11047

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C
 LOCATION Cut 8 COORDINATES 472162.0 E; 7093401.6 N
 PROJECT No FG5799 SURFACE R.L. 85.50m PLUNGE _____ DATE STARTED 10/07/11 GRID DATUM MGA94
 JOB No 232/10A/2 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 10/07/11 DRILLER Drillsure Pty Ltd

DEPTH (m)	R.L. (m)	ALGER 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			
										ET	VH	H	M	J	VL	EL	20					60	200	600
0	85.50					TOPSOIL: Mottled grey, dry, gravelly.																		
	85.35					Clayey SILT (Residual): Mottled grey-brown. Minor organic content.	(ML)																	
	84.85					SANDSTONE (XW): Generally exhibits the engineering properties of a mottled orange/brown, moist, hard, sandy clay.	XW																	
	84.00					SANDSTONE (HW): Orange/brown to white/grey, fine to coarse grained, generally massive, low to medium strength. Defects: - Joint at 30° (1-2/m) - Joint at 55-65° (4/m) Defects are generally medium spaced. Defect surfaces are planar, open or tight, smooth, clay infilled, quartz infilled. Defect surfaces are generally medium spaced, planar, smooth, open to tight, clay or quartz infilled. Quartz bands throughout sizing 70-250mm. Pebbles throughout. Pebble fraction is subangular to rounded, sizing up to 20mm. Clay bands in parts sizing up to 100mm.	HW																	
	81.40					SANDSTONE (MW): Brown, fine to medium grained, massive, medium strength, indurated and/or slightly metamorphosed. Defects: -Occasional clay seams up to 150mm. -Joint at 30° (1-2/m) -Joint at 55°-65° (3/m) Defect spacing is generally medium. Defect surfaces are planar, tight, clay infilled.	MW																	

QLD_DMR_LUB_01A_GLB_Log_A_ENGINEERING_BOREHOLE_LOG_W_LITHOLOGY_FG5799 - BRUCE HWY UPGRADE SECTION C.GPJ D:\VIC\46352.CDW Date: 9/12/2011 16:29

REMARKS _____ LOGGED BY JA/DC

ENGINEERING BOREHOLE LOG

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SYMBOLS REFER FORM F:GEOT 017/6-2010

BOREHOLE No BH C24

SHEET 2 of 2

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QLD_DMIR_LUB_01A_GLB_Log_A_ENGINEERING_BOREHOLE_LOG_W/LITHOLOGY_FG5799 - BRUCE HWY UPGRADE SECTION C.GPJ DWG46352.GDW Digital CPT Tool (WIN) Add-in 12/12/2011 16:29

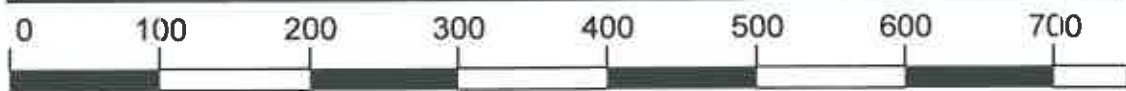
DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH					DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
										EH	VH	M	J	PL				
10	75.50		(79)			SANDSTONE (MW): Cont'd										QZ VN		
11						10.9-11.7m: Siltstone interbed.										DD = 2.43t/m ³ ; MC = 1.7%; UCS=9.45MPa Is(50) = 1.32MPa	UCS x	
12			100 (44)						MW							Clnf J, 55° J, 75°, Pl, T, Clnf		
13	72.65		100 (80)			SILTSTONE (MW): Orange/brown to blue/grey, fine grained, massive, medium strength, indurated and/or slightly metamorphosed. Defects: -Joint at 35° (~4/m) -Joint at 55° (2/m) Defect spacing is medium to wide. Defect surfaces are generally planar, tight, smooth, or clay infilled.										Siltstone interbed XW CLy band		
14	71.00		100 (91)						MW							Is(50) = 0.28MPa J, 30°, Pl, O, S, FeSt Is(50) = 0.79MPa Is(50) = 0.46MPa	o x o	
15						Borehole terminated at 14.5m												
16																		
17																		
18																		
19																		
20																		

REMARKS _____

LOGGED BY
JA/DC

CORE PHOTO LOG - BH C24

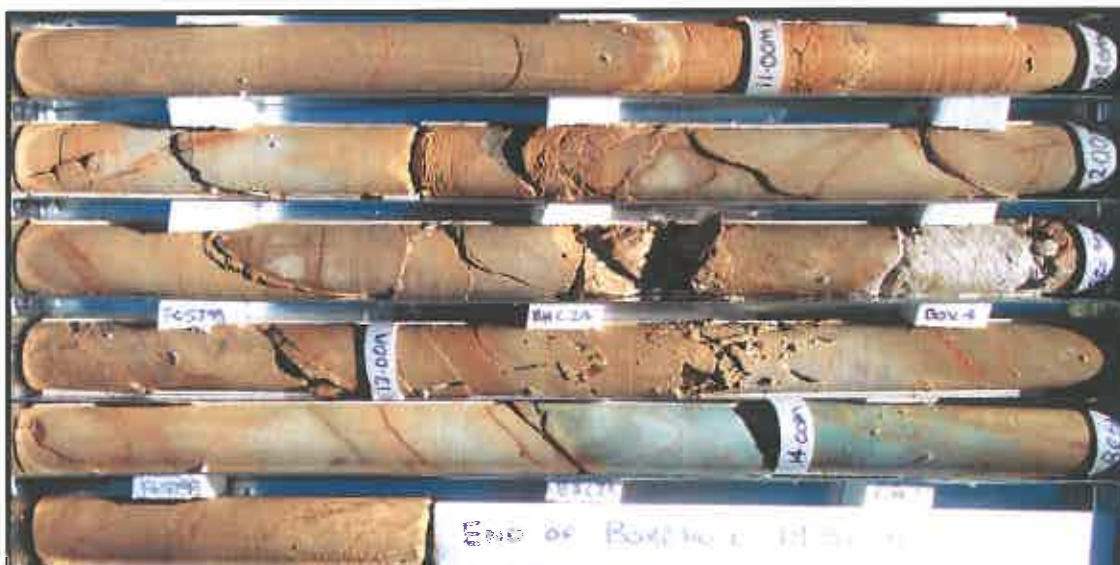
Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	06/09/2011
Details:	Cut 8	Start Depth (m):	1.50
Reference No.:	H11047	Finish Depth (m):	14.50



SCALE 1:5

CORE PHOTO LOG - BH C24

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	06/09/2011
Details:	Cut 8	Start Depth (m):	1.50
Reference No.:	H11047	Finish Depth (m):	14.50



SCALE 1:5