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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH C31
SHEET 1 of 2
REFERENCE No H11121

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C
LOCATION Cut 9 COORDINATES 471798.1 E; 7094329.4 N
PROJECT No FG5799 SURFACE R.L. 73.60m PLUNGE DATE STARTED 24/07/11 GRID DATUM MGA94
JOB No 232/10A/2 HEIGHT DATUM AHD BEARING DATE COMPLETED 25/07/11 DRILLER Drillsure Pty Ltd

DEPTH (m)	R.L. (m)	AUGER / CASING / WASH BORING / CORE DRILLING	RQD ( )% CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH (EH VH H M L VL EL)	DEFECT SPACING (mm) (20 60 200 600 2000)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	TESTS
0	73.60													
	73.40				**TOPSOIL:** Grey.									
					Sandy SILT: Brown, Slightly gravelly.		(ML)					Based on drillers logs only		
	73.00				**SANDSTONE (HW):** Brown/orange, fine grained.			HW				15,30/100 N>50		SPT
1				A										
	71.60													
2			(8)		**SANDSTONE (MW):** Brown, fine grained, massive, medium to high strength, indurated and/or slightly metamorphosed. Defects: -Joint at 5°-10° (3/m) -Joint at 40° (2/m) -Joint at 75°-80° (~5/m) Defects are generally close to medium spaced. Defect surfaces are planar, open or tight, slightly rough, clay infilled.			MW				J, 40°, Pl, T, SR, Clnf Is(50) = 1.07MPa J, 5°, Pl, O, SR, Clnf Is(50) = 0.95MPa J, 75°-80°, Pl, T, SR, Clnf Siltstone Interbed		x o
	70.70													
3			93									XW Clay Seam Highly Fractured Zone		
			(0)		**SILTSTONE (MW):** Mottled grey/brown, fine grained, massive, medium to high strength, indurated and/or slightly metamorphosed. Defects: -Joint at 5°-10° (~5/m) -Joint at 20° (4/m) -Joint at 70° (~2/m) -Joint at 80°-90° (~3/m) Defects are mainly very closely spaced. Defect surfaces are planar, tight, smooth, clay infilled.							J, 70°, Pl, T, S, Clnf, broken. J, 80°, Pl, T, Clnf		
4								MW				J, 80°, Pl, T, Clnf Clay Seam		
												XW Clay Seam BZ		
5			(0)									J, 90°, Pl, T, Clnf		
			(10)									XW Clay Seam		
	67.90				**SANDSTONE (SHEAR ZONE) (HW):** Brown/grey, fine to medium grained, massive, very low strength. Defects: -Clayey and broken throughout. -Joint at 20° (5-6/m) -Joint at 30° (3-4/m) -Joint at 50° (1-2/m) -Joint at 70° (1-2/m) -Joint at 80° (~2/m) Defect spacing is extremely close. Defect surfaces are generally planar, tight, slightly rough, quartz or clay infilled. Conglomeritic in parts.							XW Clay Seam		
6														
7			(0)					HW				BZ		
8	65.50													
			(25)		**SANDSTONE (MW):** Mottled grey/brown, fine grained, massive, medium to high strength, indurated and/or slightly metamorphosed. Defects: -Joint at 5°-10° (~5/m) -Joint at 20° (4/m) -Joint at 70° (~2/m) -Joint at 80°-90° (~3/m)							Conglomerate bed		
9								MW				Conglomeritic: moderately sorted, subrounded, sizing up to 10mm.		
			(7)		(See over)									
10														

REMARKS

LOGGED BY JA/DC

QLD_DMR_LIB_01A.GLB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY FG5799 - BRUCE HWY UPGRADE SECTION C.GPJ DWG46352.GDW Datgel CPT Tool gINt Add-In 12/12/2011 16:29

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ENGINEERING BOREHOLE LOG

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

BOREHOLE No	BH C31
SHEET	2 of 2
REFERENCE No	H11121

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C

LOCATION Cut 9 COORDINATES 471798.1 E; 7094329.4 N

PROJECT No FG5799 SURFACE R.L. 73.60m PLUNGE DATE STARTED 24/07/11 GRID DATUM MGA94

JOB No 232/10A/2 HEIGHT DATUM AHD BEARING DATE COMPLETED 25/07/11 DRILLER Drillsure Pty Ltd

DEPTH (m)	R.L. (m)	AUGER / CASING / WASH BORING / CORE DRILLING	RQD ( )% CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH (EH VH H M L VL EL)	DEFECT SPACING (mm) (20 60 200 600 2000)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	TESTS
10	63.60				**SANDSTONE (MW):** Cont'd Defects are mainly very closely spaced. Defect surfaces are planar, tight, smooth, clay infilled. Occasional siltstone interbeds.		MW				Siltstone interbed QZ veining throughout J, 70°, Pl, T, SR, Clnf			
11			(0)											
12			(13)											
13											QZ veining			
	59.90													
14			(28)		**SANDSTONE (SW):** (As above).		SW					Is(50) = 2.04MPa Is(50) = 1.53MPa	x o	
	59.25				Borehole terminated at 14.35m									
15														
16														
17														
18														
19														
20														

REMARKS

LOGGED BY JA/DC

QLD_DMR_LIB_01A.GLB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY FG5799 - BRUCE HWY UPGRADE SECTION C.GPJ DWG46352.GDW Datgel CPT Tool gINt Add-In 12/12/2011 16:29

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Queensland Government

CORE PHOTO LOG - BH C31

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	08/09/2011
Details:	Cut 9	Start Depth (m):	2.00
Reference No.:	H11121	Finish Depth (m):	14.35

SCALE 1:5

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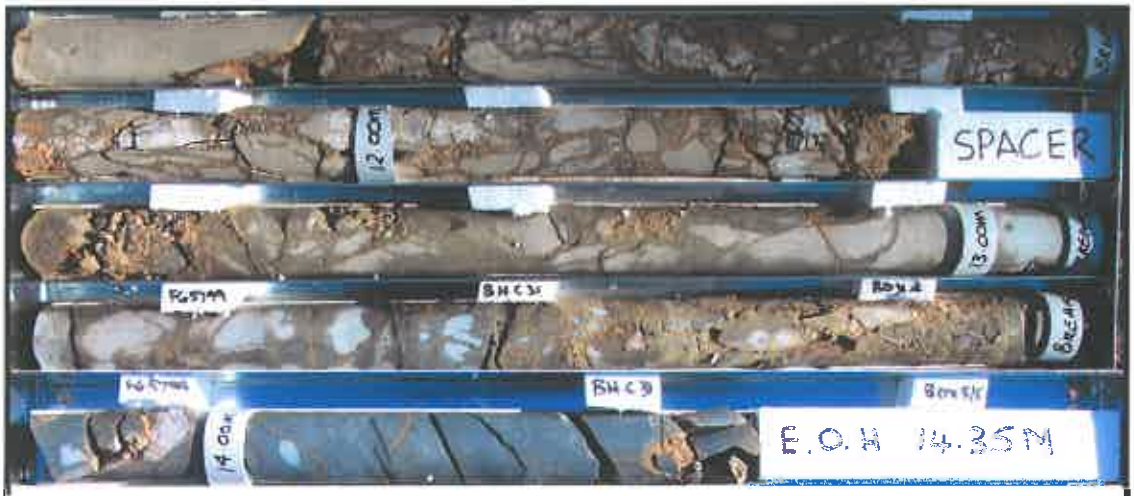
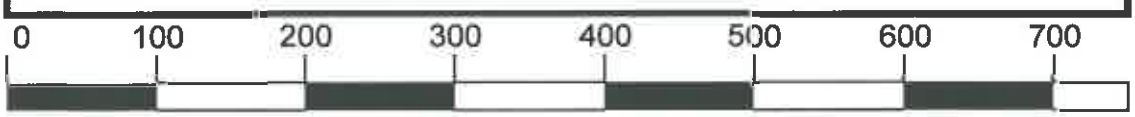
Reference No.:	H11121	Finish Depth (m):	14.35





SCALE 1:5

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