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ENGINEERING BOREHOLE LOG

Queensland Government

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

BOREHOLE No BH C41
SHEET 1 of 2
REFERENCE No H11130

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C
LOCATION Cut 10 COORDINATES 471499.6 E; 7094901.8 N
PROJECT No FG5799 SURFACE R.L. 76.40m PLUNGE DATE STARTED 25/07/11 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	76.40													
	76.20				**TOPSOIL:** Grey.									
					Sandy SILT (Residual soil) Brown.		(ML)					Based on driller's logs only		
	75.50													
1				A	**SANDSTONE (HW):** Brown, medium grained.			HW				24,28,30/100 N>50		SPT
	74.40													
2			(0)		**SANDSTONE (HW)** Brown/grey, medium to coarse grained, massive, low to medium strength. Defects: -Joint at 40°-45°(2/m) -Joint at 60-65° (1/m) Defects are close to medium spaced. Defects are planar, tight or open, slightly rough, clay infilled, iron stained. Pebbles throughout up to 50mm.							XW Clay Seam		
			100 (38)					HW				J, 40°, Pl, O, Clnf		
3												J, 65°, Pl, T, Clnf		
												Is(50) = 0.38MPa		x
	72.98											Is(50) = 0.40MPa		o
					SANDSTONE (MW): Brown/grey, medium to coarse grained, massive, high strength, indurated and/or slightly metamorphosed. Defects: -Joint at 20°-25° (1/m) -Joint at 40°-45° (2/m) -Joint at 50° (<1/m) -Joint at 60°-65° (~1/m) Defect spacing is generally medium. Defects are planar, tight or closed, slightly rough, clay infilled, iron stained. Pebbles throughout up to 50mm.							J, 65°, Pl, T, Clnf		
4			100 (73)									J, 45°, Pl, T, Clnf		
												J, 45°, Pl, T, Clnf		
												J, 60°, T, Clnf		
												Is(50) = 1.03MPa		x
												Is(50) = 1.15MPa		o
5												DD = 2.48t/m^3; MC = 1.4%; UCS=12.5MPa		UCS
												J, 25°, Pl, O, Clnf		
			100 (77)									J, 50°, Pl, O, SR, Clnf		
6								MW				Is(50) = 2.02MPa		x
												Is(50) = 3.14MPa		o
												J, 50°, Pl, O, Clnf		
7			100 (26)									J, 65°, Pl, O, Clnf		
			100 (59)									J, 55°, Pl, O, Clnf		
												J, 55°, Pl, O, Clnf		
8												J, 55°, Pl, O, Clnf		
												J, 55°, Pl, O, Clnf		
												Is(50) = 1.56MPa		x
												Is(50) = 3.02MPa		o
			100 (60)									HW Band		
	67.64											XW Clay Seam		
9					**SANDSTONE (SW):** Grey/brown, medium to coarse grained, massive, very high strength, indurated and/or slightly metamorphosed. (See over)			SW				J, 25°, Pl, O, Clnf, FeSt		
												J, 70°, Pl, T, FeSt		
10												J, 40°, I, O, Clnf, FeSt		

REMARKS

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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 C41
SHEET 2 of 2
REFERENCE No H11130

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C
LOCATION Cut 10 COORDINATES 471499.6 E; 7094901.8 N
PROJECT No FG5799 SURFACE R.L. 76.40m PLUNGE DATE STARTED 25/07/11 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	66.40		100 (83)		**SANDSTONE (SW):** Cont'd Defects: -Joint at **20°-25°** (<1/m) -Joint at **40°** (~1/m) -Joint at **55°-60°** (1/m) -Joint at **65°-70°** (<1/m) -Joint at **85°-90°** (<1/m) Defects **are** generally medium spaced. Defect **surfaces** are generally planar, open or tight, **slightly** rough, iron stained, clay infilled. Pebbles up to 25mm throughout.							J, 65°, Pl, O, SR, Clnf, FeSt Is(50) = 4.04MPa Is(50) = 3.88MPa DD = 2.64t/m^3; MC = 0.6%; UCS=45.9	x o	UCS
11			100 (72)									J, 70°, Pl, O, SR, Clnf, FeSt		
12												J, 70°, Pl, T, Clnf, FeSt J, 40°, Pl, O, Clnf, FeSt		
13			100 (45)				SW					Is(50) = 3.79MPa Is(50) = 3.53MPa	x o	
14												J, 85°-90°, I, C, FeSt J, 65°, Pl, C, FeSt		
15			100 (63)									Is(50) = 3.73MPa Is(50) = 3.97MPa J, 40°, Pl, O, SR, Clnf, FeSt J, 40°, Pl, O, SR, Clnf, FeSt J, 55°, Pl, O, SR, FeSt	x o	
	60.55		100		Borehole terminated at 15.85m							Is(50) = 3.70MPa	x	
16														
17														
18														
19														
20														

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

REMARKS

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CORE PHOTO LOG - BH C41

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	08/09/2011
Details:	Cut 10	Start Depth (m):	2.00
Reference No.:	H11130	Finish Depth (m):	15.85

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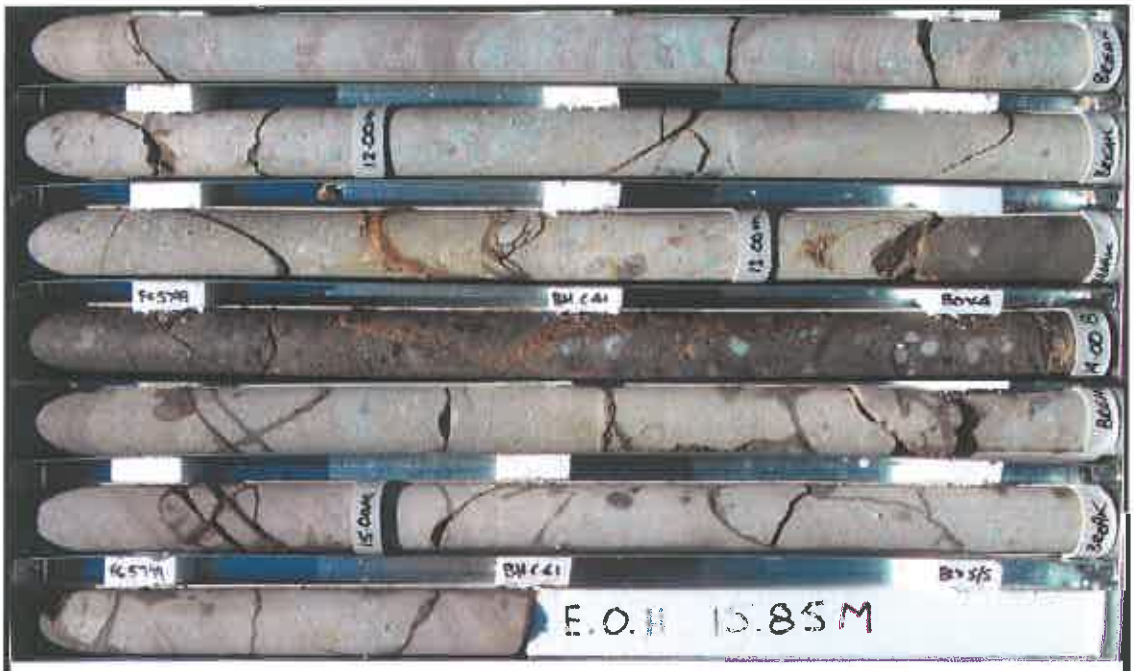

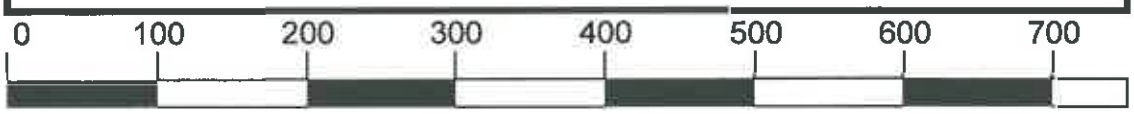

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