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ENGINEERING BOREHOLE LOG

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

BOREHOLE No	<u>BH C65</u>
SHEET	<u>1</u> of <u>2</u>
REFERENCE No	<u>H11145</u>

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C
 LOCATION Embankment 4/Tandur Rd Underpass Abut B COORDINATES 472920.0 E; 7090633.2 N
 PROJECT No FG5799 SURFACE R.L. 68.60m PLUNGE -90° DATE STARTED 29/8/11 GRID DATUM MGA94
 JOB No 232/10A/2 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 30/8/11 DRILLER Cairns Drilling

OLD_DMR_LIB_01A.GLB Log A: ENGINEERING BOREHOLE LOG FG5799 - BRUCE HWY UPGRADE SECTION C.GPJ D:\G18753.GDW Date: 12/12/2011 16:43

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	68.60					TOPSOIL						
0.30	68.30				A	Silty CLAY (Alluvium?): Brown/grey, moist, stiff to hard, intermediate plasticity, trace sand throughout.	(Cl)				Based on driller's logs only	
1.00											PP _{su} =206kPa	U50
1.50					B						2,4,5 N=9	SPT
2.50	65.60				C	Clayey GRAVEL (Residual): Brown/slightly red, wet, dense, angular gravel sizing up to 30mm.	(GC)				17,21,18 N=39	SPT
3.50	64.60				D	Clayey SILT (Residual): Brown/grey, moist, hard, intermediate plasticity. Trace gravel throughout up to 20mm.					6,17,14 N=31	SPT
4.50					E		(ML)				6,13,28 N=39	SPT
5.50					F						5,12,19 N=31	SPT
6.50	61.60				G	SILTSTONE (HW): Brown/grey, fine grained.	HW				20,30/90 N>50	SPT
7.50	60.10				H	SILTSTONE (MW): Grey/brown, fine grained, subtly foliated, mainly medium to high strength, indurated and/or slightly metamorphosed. Defects: -Fractured and broken throughout. -Joint at 35° (1-2/m) -Joint at 50° (1/m) -Joint at 70° (2/m) (See over)	MW				30/30 N>50	SPT
8.50											J, 70°, Pl, T, SR, Thinly Clinf CLy HFZ	
9.50											Is(50) = 0.38MPa Is(50) = 1.11MPa	x o
10.00												

REMARKS _____

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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH C65
SHEET 2 of 2
REFERENCE No H11145

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C
LOCATION Embankment 4/Tandur Rd Underpass Abut B COORDINATES 472920.0 E; 7090633.2 N
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DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING						GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS									
							USC	WEATHERING	EH	VH	H	M				L	VL	EL						
10	58.60					SILTSTONE (MW): Cont'd Defect spacing is very close to close. Defect surfaces are planar or irregular, tight or closed, thinly clay infilled, iron stained.	MW						BZ J, 40°, Pl, T, R, Clnf CLy BZ with QZ veins QZ vein, 50°											
11	57.10																							
12						SILTSTONE (SW): Grey, fine grained, subtly foliated, medium to high strength, indurated and/or slightly metamorphosed. Defects: -Quartz infilled fractures throughout. -Joint at 10° (1-2/m) -Joint at 30° (1/m) -Joint at 50° (1/m) -Joint at 70° (<1/m) -Joint at subvertical (<1/m) Defect spacing is generally medium. Defect surfaces are planar, tight or closed, quartz infilled, occasionally clay infilled or iron stained.	SW					J, 70°, Pl, T, SR, Clnf, FeSt J, 50°, Pl, T, Clnf, QZ BZ J, Subvertical, Pl, T, R J, 50°, Pl, T, QZ Brecciated Zone J, 60°, Pl, O, Clnf, 10mm J, 80°, C, QZ J, 30°, Pl, T, SR, Cn	Is(50) = 0.91MPa Is(50) = 0.38MPa Is(50) = 0.58MPa Is(50) = 1.29MPa Is(50) = 1.33MPa DD = 2.61t/m ³ ; MC = 2.2%; UCS=20.3	x o x o x o	UCS									
13																								
14																								
15																								
16																								
17																								
18																								
19	49.60					Borehole terminated at 19m																		
20																								

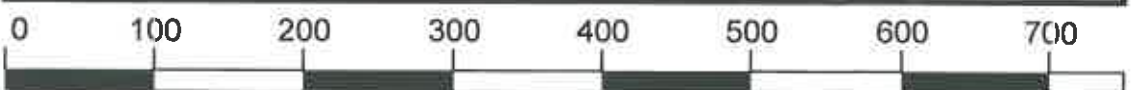
OLD_DMR_LIB_01A_GLB_Loq_A_ENGINEERING_BOREHOLE_LOG_FG5799 - BRUCE HWY UPGRADE SECTION C.GPJ DWG18753.GDW Dateplotted: 13/12/2011 16:43

REMARKS _____

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CORE PHOTO LOG - BH C65

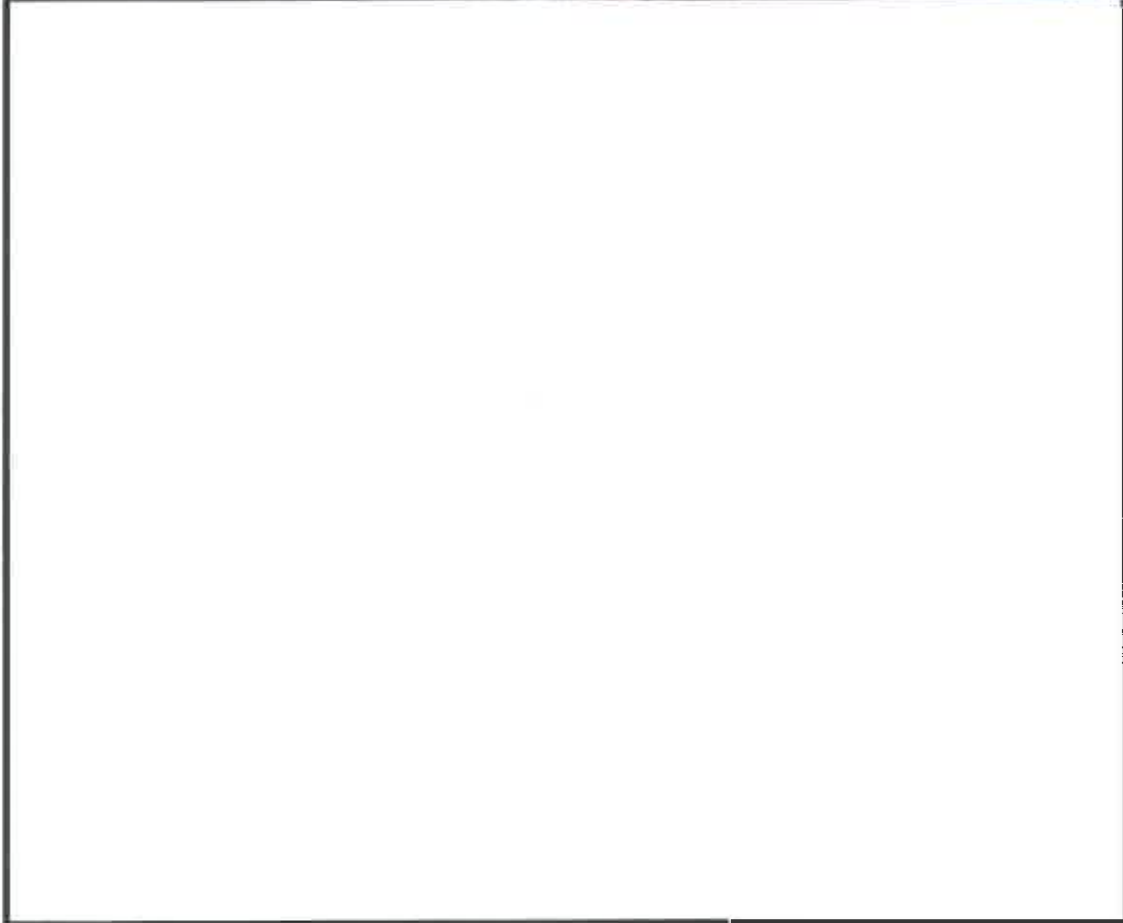
Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	08/09/2011
Details:	Emb / Structure	Start Depth (m):	8.53
Reference No.:	H11145	Finish Depth (m):	19.00



SCALE 1:5

CORE PHOTO LOG - BH C65

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	08/09/2011
Details:	Emb / Structure	Start Depth (m):	8.53
Reference No.:	H11145	Finish Depth (m):	19.00



SCALE 1:5