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PROJECT   Bruce Highway Upgrade (Cooroy to Curra) Section C    
LOCATION   Cut 11   COORDINATES   471228.9 E; 7095385.9 N    
PROJECT No   FG5799   SURFACE R.L.   73.40m   PLUNGE            DATE STARTED   05/08/11   GRID DATUM   MGA84    
JOB No   232/10A/2   HEIGHT DATUM   AHD   BEARING            DATE COMPLETED   05/08/11   DRILLER   Drillsure Pty Ltd  

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	LISC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	73.40					<b>TOPSOIL</b>							
0.75	73.20					<b>Clayey SILT (Residual):</b> Mottled grey/brown, dry.	(ML)					Based on driller's logs only	
1.25	72.25				A	<b>SILTSTONE (XW):</b> Exhibits engineering properties of a brown/grey, fine grained, dry, very stiff to hard, high plasticity, silty clay.	XW					3.8/15 N=23	SPT
2.75	70.40				B	<b>SILTSTONE (HW):</b> Brown/grey, fine grained, subtly foliated, mainly very low to low strength.  Defects: -Joint at 5°-10° (4-5/m) -Joint at 15°-20° (~6/m)  Defects are generally extremely closely spaced. Defect surfaces are planar, tight or open, smooth, clay infilled.	HW				CLy BZ BZ BZ CLy BZ CLy BZ J, 30°, Pl, O, Clnf, 10mm CLy BZ CLy BZ Clayey Seam	30/100 N>50	SPT
6.25	67.46					<b>SILTSTONE (MW):</b> Brown/grey, fine grained, subtly foliated, medium strength, indurated and/or slightly metamorphosed.  Defects: -Joint at 15°-20° (6-7/m) -Joint at 35°-40° (2/m)  Defect spacing is generally medium. Defect surfaces are typically planar, open or tight, smooth, clay infilled and iron stained.	MW				CLy BZ J, 40°, Pl, O, S, Thinly Clnf, FeSt  Clay Seam, 15°  Clay Seam Clay Seam	Is(50) = 0.37MPa J, 40°, Pl, O, S, Thinly Clnf, FeSt	x UCS
8.75												Is(50) = 0.96MPa Is(50) = 1.54MPa DD = 2.62t/m <sup>3</sup> ; WD = 2.66t/m <sup>3</sup> ; MC = 2%; UCS=15.6MPa	
9.25													
9.75													
10.25													

REMARKS \_\_\_\_\_

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QLD\_DMR\_LIB\_01A\_GLB\_Log\_A\_ENGINEERING\_BOREHOLE\_LOG\_W\_LITHOLOGY\_FG5799--BRUCE\_HVY\_UPGRADE\_SECTION\_C.GPJ\_DWG48352.GDW\_Pathel\_CPT\_Toei\_gfNt\_AddIn\_12/12/2011\_16:30



# ENGINEERING BOREHOLE LOG

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

BOREHOLE No   BH C46    
SHEET   2   of   2    
REFERENCE No   H11134  

PROJECT   Bruce Highway Upgrade (Cooroy to Curra) Section C    
LOCATION   Cut 11   COORDINATES   471228.9 E; 7095385.9 N    
PROJECT No   FG5799   SURFACE R.L.   73.40m   PLUNGE        DATE STARTED   05/08/11   GRID DATUM   MGA94    
JOB No   232/10A/2   HEIGHT DATUM   AHD   BEARING        DATE COMPLETED   05/08/11   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	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
10	63.40					<b>SILTSTONE (MW): Cont'd</b>	XXXXXX					Is(50) = 0.34MPa Is(50) = 1.15MPa	X O
11	62.32		100	(0)		<b>SILTSTONE (HW):</b> Brown/grey, fine grained, subtly foliated, very low to low strength. Defects: -Joint at 25°-30° (4-5/m) -Joint at 45°-50° (2/m) <b>Defects are very close to closely spaced.</b> Defect surfaces are planar or irregular, tight or closed, clay infilled, iron stained. Borehole terminated at 12.1m	XXXXXX						
12	61.30		100										
13													
14													
15													
16													
17													
18													
19													
20													

OLD DMR LIB 01A GJB Loc: A. ENGINEERING BOREHOLE LOG W LITHOLOGY FG5799 - BRUCE HWY UPGRADE SECTION C.G.F.J. D:\0164852.GDW. Date: 01/12/2011 16:30

REMARKS \_\_\_\_\_

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**CORE PHOTO LOG - BH C46**

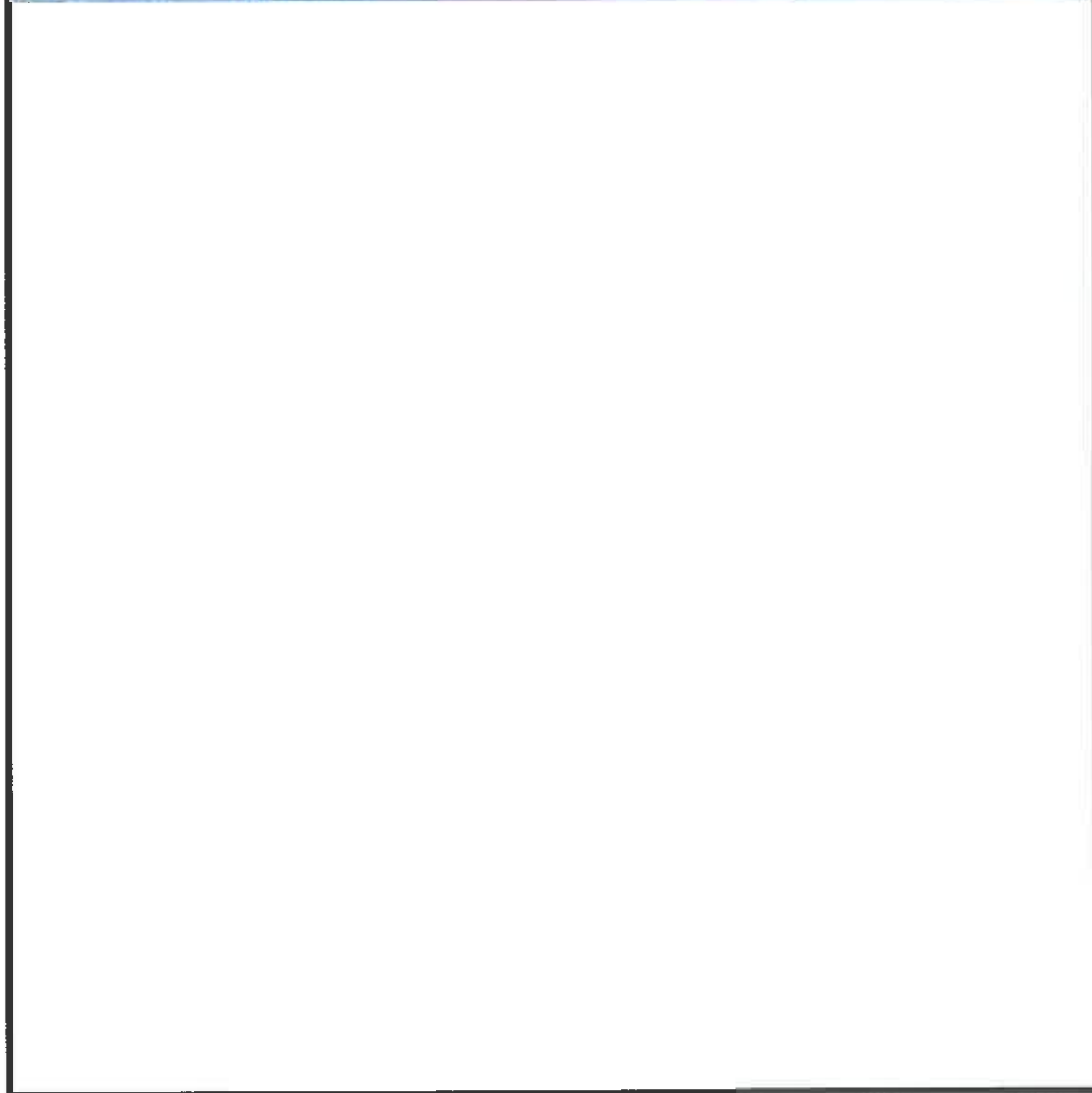
Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	08/09/2011
Details:	Cut 11	Start Depth (m):	3.00
Reference No.:	H11134	Finish Depth (m):	12.10



SCALE 1:5

**CORE PHOTO LOG - BH C46**

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	08/09/2011
Details:	Cut 11	Start Depth (m):	3.00
Reference No.:	H11134	Finish Depth (m):	12.10



SCALE 1:5