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# ENGINEERING BOREHOLE LOG

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

BOREHOLE No     BH126      
SHEET     1     of     2      
REFERENCE No     H10697    

PROJECT BRUCE HIGHWAY (COOROY - CURRA) SECTION A GEOTECHNICAL INVESTIGATION  
LOCATION Ch. 105700 - Existing Highway Embankment COORDINATES 483599.0 E; 7081254.0 N  
PROJECT No FG5825 SURFACE R.L. 104.66m PLUNGE -90 ° DATE STARTED 10/3/10 GRID DATUM MGA94  
JOB No 128/10A/901 HEIGHT DATUM AHD BEARING          DATE COMPLETED 10/3/10 DRILLER R & D Drilling

DEPTH (m)	R.L. (m)	AUGER	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH						DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
								EH	VH	I	M	L	VL				
0	104.66					<b>Asphalt and Roadbase</b>											
0.36	104.36					<b>Gravelly Silty CLAY (Fill)</b> Mottled red brown to grey, moist, stiff to very stiff.											
1.0					A	High plasticity; gravel fraction is minor and typically fine grained and less than 3cm; occasional coarse grained sand particles.									MC = 23.4%; PP (UCS)=297kPa	U100	
2.0					B	Becoming sandy clay in parts									MC = 23%; LL=57.6; PI=35.8; LS=15.6	U100	
3.0					C										MC = 20%; PP (UCS)=180kPa	U100	
4.0					D		(CH)								MC = 23.2%; PP (UCS)=137kPa LL=56.4; PI=35.0; LS=15.2	U100	
5.0					E										MC = 24.6%; PP (UCS)=340kPa	U100	
6.0					F										MC = 22.2%; LL=54.2; PI=32.2; LS=13.2	U100	
7.0					G	Becoming mottled red to brown									MC = 30%; PP (UCS)=336kPa	U100	
8.0	96.51				H	<b>Gravelly Sandy CLAY (Alluvial)</b> Brown, moist, very stiff to hard. Intermediate plasticity; organics throughout; sand fraction is fine grained; gravels up to 1cm.	(CI)								MC = 18.4%; PP (UCS)=319kPa MC = 25%; LL=42.2; PI=24.6; LS=11.8	U100	
9.0	95.51				J	<b>Sandy CLAY (Residual)</b> Pale grey, moist, very stiff to hard. Intermediate plasticity; clayey sand interbeds	(CI)								MC = 19.2%; PP (UCS)=451kPa	U100	
10.0	94.66																

REMARKS PP= Pocket Penetrometer

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

BOREHOLE No BH126  
 SHEET 2 of 2  
 REFERENCE No H10697

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DEPTH (m)	R.L. (m)	AUGER	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
10	94.66				K	<b>Silty CLAY (Residual)</b> Pale grey, moist, very stiff.					MC = 21.2%; PP (UCS)=314kPa LL=57.0; PI=36.0; LS=16.0	U100
11					L	High plasticity; traces of organics; occasional fine gravels up to 1cm; occasional fine grained sandy clay interbeds; iron cemented nodules.	(CH)				4,9,11 N=20	SPT
12	93.21					Borehole terminated at 11.45m						
13												
14												
15												
16												
17												
18												
19												
20												

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