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Queensland  
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Main Roads

## GEOTECHNICAL LOG

FOR GEOTECHNICAL TERMS AND  
SYMBOLS REFER FORM F:GEOT 017/2-2004

HOLE No BH3

SHEET 1 of 1

REFERENCE No H9522

PROJECT Apple Tree Creek Embankment Materials Investigation

COORDINATES 422871.0 E; 7211406.0 N

LOCATION Proposed borrow area at Campbell's Property

DATUM GDA94 MGA Zone 56

PROJECT No FG5334 SURFACE R.L. 84.00 DATE STARTED 14/10/04

EXCAVATION TYPE Rotary Air Boring

JOB No 64/10C/35.1 DATUM AHD DATE COMPLETED 14/10/04

MACHINE TYPE Jackro500 Top Drive

DEPTH (m)	R.L. (m)	USC	WEATHERING	LITHOLOGY	SOIL DESCRIPTION: Plasticity or particle characteristics, colour, secondary components, moisture, consistency/density, structure, origin. ROCK DESCRIPTION: Lithology, colour, structure, weathering, strength, defects.	ADDITIONAL DATA TEST RESULTS PENETRATION RATE (min:sec / m)	SAMPLES TESTS
0	84.00						
0.37	83.70	CH			<b>Silty CLAY (Topsoil/Residual Soil):</b> Brown, moist, stiff, medium to high plasticity, trace of fine grained sand.		
0.82	83.20	CH			<b>Silty CLAY (XW Basalt):</b> Red brown, moist, very stiff, high plasticity, some fine grained sand, slightly iron cemented in places.	0-1m: Penetration Rate = 0min:46sec	
1.82	82.00	SC			<b>Clayey SAND (XW Granite):</b> Pale orange brown, moist, very dense, medium plasticity, fine to coarse grained sand, ~30% fines.	1-2m: Penetration Rate = 0min:43sec	
2.82					<b>Clayey SAND with some gravel (HW Granite):</b> Pale orange brown, moist, very dense, low to medium plasticity, fine to coarse grained sand, some fine gravel, 5mm maximum particle size, ~15% fines.	2-3m: Penetration Rate = 0min:42sec	500g JAR
3.82						3-4m: Penetration Rate = 0min:44sec	
4.82						4-5m: Penetration Rate = 0min:43sec	500g JAR
5.82		SC				5-6m: Penetration Rate = 0min:37sec	500g JAR
6.82					Fines decrease to 10-15% below 6m.	6-7m: Penetration Rate = 0min:48sec	500g JAR
7.82						7-8m: Penetration Rate = 0min:41sec	500g JAR
8.50	75.50				Dark orange brown in colour below 8m. Less fine gravel and fines increase to ~20%.	8-8.5m: Penetration Rate = 0min:33sec	
8.50					Hole ended at 8.5m		
9.00							
10.00							

REMARKS % fines = % material passing the 0.075mm sieve

LOGGED BY  
A. O'Rourke

Project : FG5334 - Apple Tree Creek Materials Investigation

Borehole No : 3

