ENGINEERING BOREHOLE LOG

Queensland Government

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

BOREHOLE No **BH104**
SHEET 1 of 3
REFERENCE No **H10893**

PROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BAKER'S CREEK BRIDGE
LOCATION Pier 1, Centreline COORDINATES 718749.7 E; 7655033.9 N
PROJECT No FG5635 SURFACE R.L. 6.69m PLUNGE DATE STARTED 26/10/10 GRID DATUM MGA94 Zone 55
JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 26/10/10 DRILLER Drillsure Pty Ltd

DEPTH (m)	R.L. (m)	AUGER / CASING / WASH BORING	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	6.69				**SILT (ALLUVIAL)** Mottled grey, moist, soft. Some organics throughout.		(MH)					Based on Driller's logs only		
1	5.69			A	**Clayey SILT (ALLUVIAL)** Dark brown-grey, moist, soft to firm. High plasticity; occasional fine grained sand; trace of organics. Becoming sandy at 2.0m.		(MH)					1,2,2 N=4		SPT
2				B								3,4,4 N=8		SPT
3	3.39				**Gravelly SAND (ALLUVIUM)** Pale grey, moist, dense to very dense. Medium to coarse grained sand, basal alluvium.									
4				C			(SP)					30/100mm N>50		SPT
5	0.99			D	**GRANODIORITE** **Intrusive, coarse grained, massive, crystalline, acidic igneous rock** **XW:** Generally exhibits the engineering properties of pale brown, moist, very stiff to mainly hard, sandy clayey silt. Occasional fine gravels <10mm and iron cemented nodules <20mm. Minor organics on upper area.							13,14,18 N=32		SPT
6														
7				E				XW				9,13,17 N=30		SPT
8														
9				F								10,16,22 N=38		SPT
10														

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REMARKS

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10	-3.31			G	**GRANODIORITE** **XW:** (Cont'd)							3,11,11 N=22	SPT
11							XW						
	-5.11			H								11,18,26 ~~N=44~~	SPT
12					**GRANODIORITE** **HW:** Pale brown, moist, very dense, gravelly silty sand. Subrounded gravel <30mm; occasional gravelly sand, clayey sand and cemented bands.								
13				J								30,30/100mm N>50	SPT
14													
				K								20,22,19 N=41	SPT
15													
16				L	Becoming less silty with depth.		HW					16,23,30 N>50	SPT
17													
				M								22,30/30mm N>50	SPT
18													
19				N								17,30,30/120mm N>50	SPT
20					Some gravel-sized particles around 19.6m.								

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20	-13.31				**GRANODIORITE** **HW:** (Cont'd)									
				P								30/100mm N>50; No recovery		SPT
21														
					Appears to be becoming very low strength rock with depth.									
22				Q				HW				30/50mm N>50		SPT
23														
24	-17.51											Blade bit refusal		
					Borehole terminated at 24.2m									
25														
26														
27														
28														
29														
30														

REMARKS

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