ENGINEERING BOREHOLE LOG

Queensland Government

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

BOREHOLE No **BH115**
SHEET 1 of 3
REFERENCE No **H10871**

PROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BAKER'S CREEK BRIDGE
LOCATION Abutment B, RHS COORDINATES 718825.4 E; 7655016.8 N
PROJECT No FG5635 SURFACE R.L. 9.47m PLUNGE DATE STARTED 19/10/10 GRID DATUM MGA94 Zone 55
JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 25/10/10 DRILLER Cairns Drilling

DEPTH (m)	R.L. (m)	AUGER / CASING / WASH BORING / CORE DRILLING	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	9.47				**Sandy CLAY (ALLUVIAL)** Dark brown, moist, soft to firm. High plasticity; fine grained sand; traces of organics.									
1														
2				A	Some boulders.		(CH)					2,2,2 N=4		SPT
3				B								1,2,2 N=4		SPT
4	4.97													
5				C	**Clayey SILT (ALLUVIAL)** Light brown, moist, very stiff. Medium plasticity; occasional fine grained sand.		(ML)					6,11,15 N=26		SPT
6	3.47			D	**GRANODIORITE** **Intrusive, medium to coarse grained, massive, crystalline, acidic igneous rock** **HW:** Pale brown, moist, very dense, gravelly silty sand.							13,30/130mm N>50		SPT
7				E								29,30/100mm N>50		SPT
8				F			HW					15,23,30/140mm N>50		SPT
9				G								18,19,18 N=37		SPT
10	-0.53													

REMARKS

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10	-0.53			H	**GRANODIORITE** **XW:** Generally exhibits engineering properties of pale brown, moist, hard, gravelly sandy silt. Occasional rounded fine gravel <10mm.							7,12,18 N=30	SPT
11				J								16,22,25 N=47	SPT
12				K								8,14,19 N=33	SPT
13				L			XW					9,15,22 N=37	SPT
14				M								8,15,22 N=37	SPT
15				N								10,17,23 N=40	SPT
16				O								7,15,22 N=37	SPT
17	-8.03			P	**GRANODIORITE** **HW:** Pale brown-speckled black, moist, very dense, gravelly silty sand. Becoming very low to low strength rock with deph.							11,23,30/100mm N>50	SPT
18				Q	Highly friable rock; crushed zones <300mm.		HW					30/100mm N>50	SPT
19				R								29,30/70mm N>50	SPT
20													

QLD_DMR_LIB_01A.GLB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY BAKERS FG5635- WALKERSTON BYPASS.GPJ <<DrawingFile>> Datgel CPT Tool gINt Add-In 01/09/2011 14:56

REMARKS

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PROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BAKER'S CREEK BRIDGE
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PROJECT No FG5635 SURFACE R.L. 9.47m PLUNGE DATE STARTED 19/10/10 GRID DATUM MGA94 Zone 55
JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 25/10/10 DRILLER Cairns Drilling

DEPTH (m)	R.L. (m)	RQD ( ) % / CORE REC %	MATERIAL DESCRIPTION	USC	WEATHERING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	TESTS
20	-10.53		**GRANODIORITE** **HW:** (Cont'd)		HW	30/30mm N>50	S	SPT
	-11.18	(91)	**GRANODIORITE** **MW:** Pale orange-brown to pale brown, medium to coarse grained, massive, very low to low strength. Frequent HW zones.			CZ; Is(50) = 0.08MPa; Is(50) = 0.03MPa		x; o
21								
22		100 (33)				Is(50) = 0.02MPa; Is(50) = 0.01MPa		o; x
23		100 (19)				CZ; XW zone		
24		89 (0) 0 (0)			MW			
25		63 (73)				CLy CZ		
26		100 (81)				Is(50) = 0.06MPa; Is(50) = 0.02MPa; CZ		o; x
	-17.38		**GRANODIORITE** **SW:** Pale grey with black and pink speckling, medium to coarse grained, massive, mainly very high strength. Defects: Very rare (possibly drilling-induced breaks) - Joint @ 10° (<1/m) Defects are generally planar, slightly rough, open and clean.		SW	CZ; Is(50) = 4.06MPa; Is(50) = 7.31MPa; UCS = 38.40 MPa		x; o
27		100 (100)						
28	-19.03	100				Jt @ 10°, Pl, O,SR,CN; Is(50) = 7.46MPa; Is(50) = 5.38MPa		o; x
			Borehole terminated at 28.5m					
29								
30								

REMARKS

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Project: **Walkerston Bypass (Bakers Ck)**

Borehole No: **BH115**

Start Depth: 20.53 m
Finish Depth: 28.50 m
Project No: FG5635
H No:

0 100 200 300 400 500 600mm

SCALE 1:5

F:GEOT043/1