ENGINEERING BOREHOLE LOG

Queensland Government

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

BOREHOLE No **BH108**
SHEET 1 of 3
REFERENCE No **H10860**

PROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BAKER'S CREEK BRIDGE
LOCATION Pier 2, Centreline COORDINATES 718775.1 E; 7655033.5 N
PROJECT No FG5635 SURFACE R.L. 6.86m PLUNGE DATE STARTED 11/10/10 GRID DATUM MGA94 Zone 55
JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 12/10/10 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	6.86				**Silty Sandy CLAY (ALLUVIAL)** Black, moist, soft. Fine grained sand; minor roots.		(CH)					Based on Driller's logs only		
	6.06				**Silty Sandy CLAY (ALLUVIAL)** Dark brown, moist, soft to firm. High plasticity; fine grained sand.									
1				A			(CH)					1,2,2 N=4		SPT
2	4.16				**Clayey SILT (ALLUVIAL)** Pale grey, moist, stiff.									
3				B			(MH)					3,5,9 N=14		SPT
	3.46				**Clayey Silty SAND (ALLUVIAL)** Pale grey, moist, medium dense. Fine to medium grained sand.									
4							(SC)					Loose sand lenses		
	2.06			C								8,8,11 N=19		SPT
5					**Clayey SAND (ALLUVIAL)** Pale grey, moist, medium dense to dense.									
6				D			(SC)					10,19,28 N=47		SPT
	0.06				**GRANODIORITE** **Intrusive, coarse grained, massive, crystalline, acidic igneous rock** **XW:** Generally exhibits the engineering properties of mottled grey, orange-black, moist, very stiff to hard, clayey sandy silt.									
7				E								10,15,24 N=39		SPT
8				F			XW					10,15,20 N=35		SPT
9				G								8,11,15 N=26		SPT
10														

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 14:55

REMARKS

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BOREHOLE No **BH108**
SHEET 2 of 3
REFERENCE No **H10860**

PROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BAKER'S CREEK BRIDGE
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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
10	-3.15				**GRANODIORITE** **XW:** (Cont'd)									
				H								6,9,12 N=21		SPT
11							XW							
12				G								8,15,20 N=35		SPT
13				K								9,14,25 N=39		SPT
	-6.55				**GRANODIORITE** **HW:** Grey-brown, moist, dense to very dense, gravelly silty sand.									
14				L	Minor angular medium to coarse grained rock fragments.							11,17,22 N=39		SPT
15				M								11,17,22 N=39		SPT
16				N								8,17,21 N=38		SPT
							HW							
17				O	Becoming more gravelly clay @ 17.40m.							9,17,25 N=42		SPT
18				P								12,30/140mm N>50		SPT
			(0) 100		Becoming very low strength rock with depth.									
19			(0) 100											
			(0) 29											
20	-13.15		(0)											

REMARKS

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BOREHOLE No **BH108**
SHEET 3 of 3
REFERENCE No **H10860**

PROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BAKER'S CREEK BRIDGE
LOCATION Pier 2, Centreline COORDINATES 718775.1 E; 7655033.5 N
PROJECT No FG5635 SURFACE R.L. 6.86m PLUNGE DATE STARTED 11/10/10 GRID DATUM MGA94 Zone 55
JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 12/10/10 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
20	-13.15		0	Q	**GRANODIORITE** **HW:** Brown and speckled white, moist, very dense, silty gravelly sand, abruptly grading into very low to low strength rock.							30/130mm N>50	SPT	x
			(0)									Is(50) = 0.02MPa		o
			100									Is(50) = 0.10MPa		
21			(0)											
			100									Is(50) = 0.01MPa		x
			100					HW				Is(50) = 0.08MPa		o
			(0)											
			(0)											
			100											
22			(0)											
	-15.85		100											
			(73)		**GRANODIORITE** **MW:** Pale grey and speckled light brown, medium to coarse grained, massive, mainly low to medium strength.							Is(50) = 0.29MPa		o
23												Is(50) = 0.05MPa		x
												Is(50) = 0.17MPa		o
												Is(50) = 0.08MPa		x
								MW						
					Defects: - Defects @ 10° (1-3/m)							Is(50) = 0.18MPa		x
												Is(50) = 0.31MPa		o
					Defects are generally planar, rough and open.							Is(50) = 0.30MPa		o
24	-17.30		100									Is(50) = 0.02MPa		x
					Borehole terminated at 24.15m									
25														
26														
27														
28														
29														
30														

REMARKS

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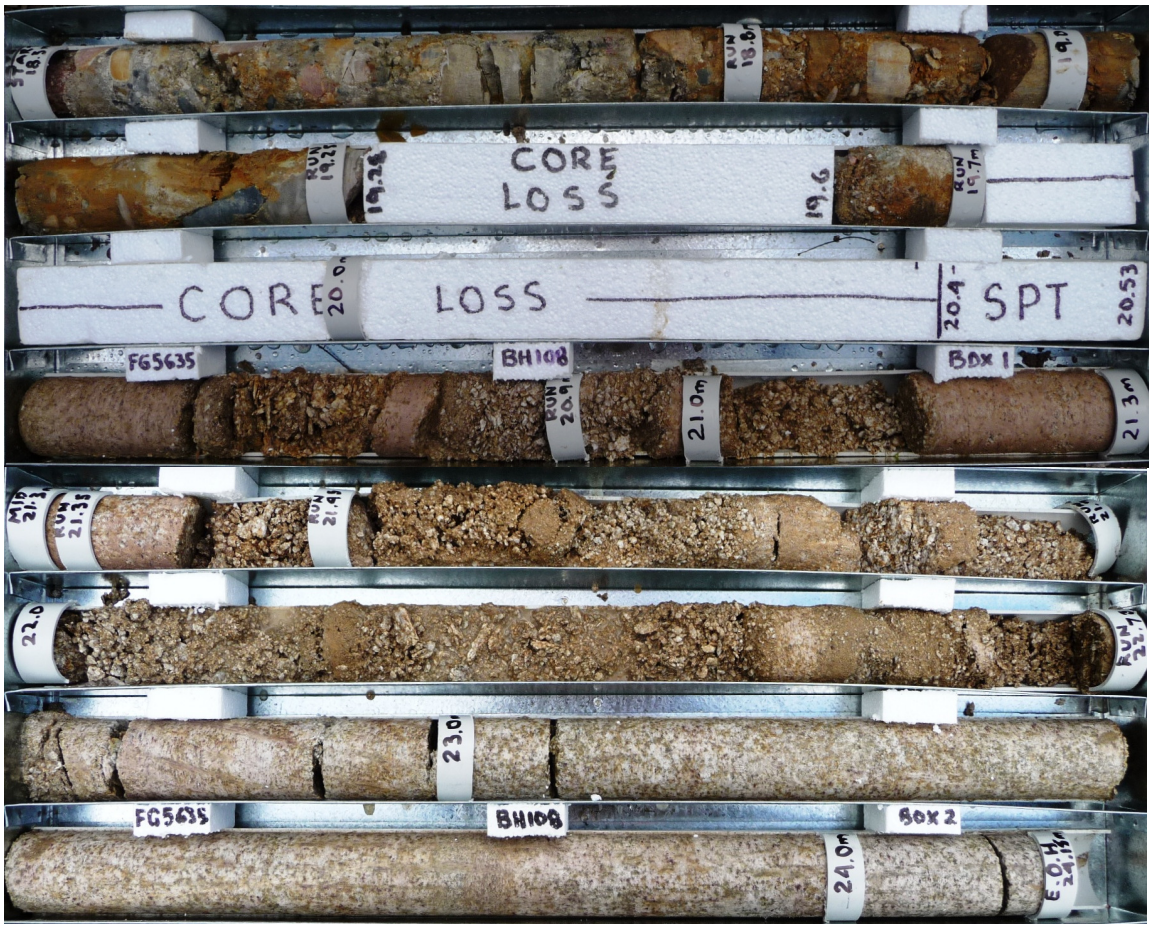
Project: **Walkerston Bypass (Bakers Ck)**

Borehole No: **BH108**

Start Depth: 18.30m
Finish Depth: 24.15 m
Project No: FG5635
H No:



0 100 200 300 400 500 600mm

SCALE 1:5

F:GEOT043/1