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ENGINEERING BOREHOLE LOG

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	DEFECT SPACING (mm)	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					A	Some boulders.	(CH)						2,2,2 N=4	SPT
2					B								1,2,2 N=4	SPT
3														
4	4.97				C	Clayey SILT (ALLUVIAL) Light brown, moist, very stiff. Medium plasticity; occasional fine grained sand.	(ML)						6,11,15 N=26	SPT
5														
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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ENGINEERING BOREHOLE LOG

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BOREHOLE No **BH115**
SHEET **2** 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	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
10	-0.53													
11					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
12					J								16,22,25 N=47	SPT
13					K								8,14,19 N=33	SPT
14					L		XW						9,15,22 N=37	SPT
15					M								8,15,22 N=37	SPT
16					N								10,17,23 N=40	SPT
17					O								7,15,22 N=37	SPT
18	-8.03				P	GRANODIORITE HW: Pale brown-speckled black, moist, very dense, gravelly silty sand. Becoming very low to low strength rock with depth.							11,23,30/100mm N>50	SPT
19					Q	Highly friable rock; crushed zones <300mm.	HW						30/100mm N>50	SPT
20					R								29,30/70mm N>50	SPT

REMARKS _____

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BOREHOLE No **BH115**
SHEET **3** 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	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
20	-10.53					GRANODIORITE HW: (Cont'd)	HW					30/30mm N>50	SPT
21	-11.18		(91)			GRANODIORITE MW: Pale orange-brown to pale brown, medium to coarse grained, massive, very low to low strength. Frequent HW zones.						Is(50) = 0.08MPa Is(50) = 0.03MPa	
22			100 (33)				MW					Is(50) = 0.02MPa Is(50) = 0.01MPa	o x
23			100 (19)										
24			89 (0)										
25			0 (0) 63 (73)										
26			100 (81)				SW					Is(50) = 0.06MPa Is(50) = 0.02MPa	o x
27	-17.38		100 (100)			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.						Is(50) = 4.06MPa Is(50) = 7.31MPa	
28			100									UCS = 38.40 MPa	
29	-19.03		100									Is(50) = 7.46MPa Is(50) = 5.38MPa	
30						Borehole terminated at 28.5m							

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:



SCALE 1:5

F:GEOT043/1