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ENGINEERING BOREHOLE LOG

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

BOREHOLE No	<u>BH112</u>
SHEET	<u>1</u> of <u>3</u>
REFERENCE No	<u>H10865</u>

PROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BAKER'S CREEK BRIDGE
 LOCATION Pier 3, RHS COORDINATES 718802.6 E; 7655017.2 N
 PROJECT No FG5635 SURFACE R.L. 6.81m PLUNGE _____ DATE STARTED 14/10/10 GRID DATUM MGA94 Zone 55
 JOB No _____ HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 16/10/10 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	6.81					Silty CLAY (ALLUVIAL) Brown to mottled yellow-brown, moist, firm. High plasticity; minor fine sand.						Based on Driller's logs only	
1					A		(CH)					N=4; PP=70kPa	SPT
3	3.81				B	Sandy SILT (ALLUVIAL) Light brown-pale grey, moist, very stiff. Low plasticity; minor fine grained sand with occasional coarse sand particles.	(ML)					8,10,19 N=29	SPT
5	2.31				C	GRANODIORITE Intrusive, coarse grained, massive, crystalline, acidic igneous rock XW: Generally exhibits the engineering properties of pale brown, moist, occasionally stiff to mainly hard clayey sandy silt. Minor subangular rock fragments.						20,30/100mm N>50	SPT
6				D								30/100mm N>50	SPT
7				E			XW					8,13,20 N=33	SPT
8				F								6,11,19 N=30	SPT
9					G							6,11,17 N=28	SPT
10													

REMARKS _____

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JLo / JA / ME



ENGINEERING BOREHOLE LOG

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BOREHOLE No BH112
SHEET 2 of 3
REFERENCE No H10865

PROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BAKER'S CREEK BRIDGE
LOCATION Pier 3, RHS COORDINATES 718802.6 E; 7655017.2 N
PROJECT No FG5635 SURFACE R.L. 6.81m PLUNGE DATE STARTED 14/10/10 GRID DATUM MGA94 Zone 55
JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 16/10/10 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
										EH	VH	IM	J	VL				
10	-3.19					GRANODIORITE XW: (Cont'd)												
11					H												7,12,20 N=32	SPT
12					J			XW									6,11,19 N=30	SPT
13																		
14					K	Increasing plasticity and gravel content with depth.											12,17,19 N=36	SPT
15					L	GRANODIORITE HW: Pale brown speckled white, dense to mainly very dense clayey sand or gravelly silty sand. Becoming very low to low strength rock with depth.											8,16,29 N=45	SPT
16					M	Defects: - Joints @ 20-50° (3-4/m) - Joints @ 50° (1/m)											17,26,30/95mm N>50	SPT
17					N	Defect surfaces are generally planar, slightly rough, open and clean.											16,30/110mm N>50	SPT
18					O												30/100mm N>50 Is(50) = 0.03MPa Is(50) = 0.02MPa	SPT x
19																	100 (39) Is(50) = 0.03MPa Is(50) = 0.03MPa	o x
20																	100 Is(50) = 0.10MPa Is(50) = 0.07MPa	o x

REMARKS _____

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ENGINEERING BOREHOLE LOG

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BOREHOLE No BH112
SHEET 3 of 3
REFERENCE No H10865

PROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BAKER'S CREEK BRIDGE
LOCATION Pier 3, RHS COORDINATES 718802.6 E; 7655017.2 N
PROJECT No FG5635 SURFACE R.L. 6.81m PLUNGE DATE STARTED 14/10/10 GRID DATUM MGA94 Zone 55
JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 16/10/10 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		
										EH	VH	HM	JL							
20	-13.19					GRANODIORITE HW: (Cont'd)														
21																Is(50) = 0.05MPa Is(50) = 0.32MPa				
22			100 (56)				HW								Is(50) = 0.06MPa Is(50) = 0.01MPa					
23			100 63 (0) (0) 0 (40)																	
24	-16.99					GRANODIORITE SW: Pale grey-black, speckled pink, medium to coarse grained, massive, mainly very high strength. MW band <280mm. Defects: - Joints @ <10° (<1/m) Defect surfaces are planar, rough, open to closed and clean.														
25			100 (100)					MW								Is(50) = 0.16MPa Is(50) = 0.56MPa UCS = 86.7 MPa Is(50) = 7.19MPa Is(50) = 6.12MPa				
26	-19.34		100				SW								Is(50) = 9.52MPa Is(50) = 4.70MPa					
27						Borehole terminated at 26.15m														
28																				
29																				
30																				

REMARKS _____

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

Borehole No: **BH112**

Start Depth: 17.60 m

Finish Depth: 26.15 m

Project No: FG5635

H No:



SCALE 1:5

F:GEO043/1