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# ENGINEERING BOREHOLE LOG

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

BOREHOLE No   BH110    
SHEET   1   of   3    
REFERENCE No   H10875  

PROJECT   WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BAKER'S CREEK BRIDGE    
LOCATION   Pier 3, LHS   COORDINATES   718789.7 E; 7655044.9 N    
PROJECT No   FG5635   SURFACE R.L.   7.79m   PLUNGE        DATE STARTED   18/10/10   GRID DATUM   MGA94 Zone 55    
JOB No        HEIGHT DATUM   AHD   BEARING        DATE COMPLETED   19/10/10   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	TH	W	J	VL					EL
0	7.79					<b>Silty CLAY (ALLUVIAL)</b> Dark brown, moist, firm.  High plasticity; occasional coarse sand; traces of organics.										Based on Driller's logs only			
1					A		(CH)										2,2,3 N=5	SPT	
2																			
3	4.79				B	<b>Sandy CLAY (ALLUVIAL)</b> Brown, moist, very stiff to hard.  Medium plasticity; fine grained sand.												5,7,10 N=17	SPT
4							(Cl)												
5					C	4.5m: Becoming gravelly.												30/105mm N>50	SPT
6	2.79				D	<b>GRANODIORITE</b> <b>Intrusive, coarse grained, massive, crystalline, acidic igneous rock</b> <b>XW:</b> Generally exhibits the engineering properties of pale brown, moist, occasionally very stiff to hard, clayey sandy silt.												9,16,22 N=38	SPT
7					E													14,18,24 N=42	SPT
8					F		XW											19,24,25 N=49	SPT
9					G													9,15,22 N=37	SPT
10					H													8,14,17 N=31	SPT

REMARKS \_\_\_\_\_

LOGGED BY  
JLo / JA / ME



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									EH	VH	IM	J	VL	EL				
10	-2.21					<b>GRANODIORITE XW:</b> (Cont'd)												
11					J												4.8,11 N=19	SPT
12							XW											
13					K	Minor rock particles.											11,17,25 N=42	SPT
14					L												9,16,24 N=40	SPT
14	-6.41					<b>GRANODIORITE HW:</b> Pale brown, speckled white and black, very dense gravelly silty sand. 14.5m: Iron nodules and gravel. From 15.5m: Increased fine grained sandy silt.												
15					M												30/115mm N>50	SPT
16					N												9,18,26 N=44	SPT
17					O		HW										10,17,30/95mm N>50	SPT
18					P												19,30/100 N>50	SPT
19					Q	Becoming more sandy and gravelly @ 18.20m											29,30/80mm N>50	SPT
19	-11.01			(72)		<b>GRANODIORITE MW:</b> Pale brown to pale grey-brown, massive, very low to low strength. Some HW and fragmented bands <2m.											Is(50) = 0.16MPa Is(50) = 0.04MPa	o x
20				100			MW										Is(50) = 0.05MPa Is(50) = 0.11MPa	x o

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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					DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS	
									EH	VH	I	M	J					VL
20	-12.21		(95)	0		<b>GRANODIORITE</b> MW: (Cont'd)												
21							MW									Is(50) = 0.03MPa Is(50) = 0.09MPa Is(50) = 0.08MPa Is(50) = 0.05MPa	x o x o	
22			45	(0)														
			64	(0)				HW						CZ				
			100	(0)											CZ	Is(50) = 0.04MPa Is(50) = 0.06MPa	x o	
			100	(0)														
23			(82)					MW										
			100	(16)												Is(50) = 0.01MPa Is(50) = 0.17MPa	x o	
24								HW							CZ			
25			100	(66)				MW								Is(50) = 0.07MPa Is(50) = 0.12MPa	x o	
	-17.98																	
26			100	(100)		<b>GRANODIORITE</b> SW: Pale grey speckled pink and black, coarse grained, massive, mainly very high strength.  Defects: - Joints @ 10° (<1/m)  Defect surfaces are planar, slightly rough, open and clean.									UCS = 67.7 MPa			
27							SW								Is(50) = 9.00MPa Is(50) = 8.00MPa  UCS = 66.8 MPa Is(50) = 4.10MPa Is(50) = 1.90MPa	x o  x o		
28						Borehole terminated at 27.83m												
29																		
30																		

REMARKS \_\_\_\_\_

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

Borehole No: **BH110**

Start Depth: 18.80 m

Finish Depth: 27.83 m

Project No: FG5635

H No: H10875



SCALE 1:5

F:GEO043/1