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# ENGINEERING BOREHOLE LOG

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

BOREHOLE No   BH105    
SHEET   1   of   3    
REFERENCE No   H10874  

PROJECT   WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BAKER'S CREEK BRIDGE    
LOCATION   Pier 1, RHS   COORDINATES   718757.4 E; 7655016.8 N    
PROJECT No   FG5635   SURFACE R.L.   6.53m   PLUNGE        DATE STARTED   25/10/10   GRID DATUM   MGA94 Zone 55    
JOB No        HEIGHT DATUM   AHD   BEARING        DATE COMPLETED   26/10/10   DRILLER   Drillsure Pty Ltd  

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	ML	JL	VL					EL	20	60	200	600	2000	
0	6.53					<b>Silty CLAY (ALLUVIAL)</b> Pale brown, moist, firm.  Medium plasticity; trace of organics.																				
1					A		(CI)													2,3,3 N=6	SPT					
2	4.43				B	<b>Sandy CLAY (ALLUVIAL)</b> Pale grey, moist, firm.  Low plasticity; fine grained sand; occasional gravels.															3,3,3 N=6	SPT				
3					C	<b>Clayey SAND (ALLUVIAL)</b> Pale brown-mottled grey, moist, medium dense.  Medium to coarse grained sand.																7,11,13 N=24	SPT			
4	2.93				D		(SC)																6,7,9 N=16	SPT		
5					E	<b>GRANODIORITE</b> <b>Intrusive, coarse grained, massive, crystalline, acidic igneous rock</b> <b>XW:</b> Generally exhibits the engineering properties of pale brown-mottled red, moist, very stiff to hard, sandy clayey silt.  Occasional subrounded gravel.																		11,16,17 N=33	SPT	
6	0.13				F		XW																		4,12,16 N=28	SPT
7																										
8																										
9																										
10																										

REMARKS \_\_\_\_\_

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JA



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BOREHOLE No   BH105    
SHEET   2   of   3    
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									EH	VH	I	M	J	VL				
10	-3.47				G	GRANODIORITE XW: (Cont'd)											10,14,21 N=35	SPT
11							XW											
12	-4.77				H	GRANODIORITE HW: Pale brown-light mottled grey, moist, very dense, gravelly silty sand. Subrounded to rounded gravel <40mm throughout.											20,24,30/110mm N>50	SPT
13					J												28,30/120mm N>50	SPT
14					K												21,28,30 N>50	SPT
15					L												15,22,27 N=49	SPT
16					M		HW										12,30,30/100mm N>50	SPT
17					N												17,30/100mm N>50	SPT
18					P	Becoming very low strength rock with depth.											21,30/100mm N>50	SPT
19					Q												30/100mm N>50	SPT
20																		

REMARKS \_\_\_\_\_

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										EH	VH	I	M	J	VL				
20	-13.47				R	<b>GRANODIORITE HW: (Cont'd)</b> Becoming very low to low strength rock with depth.												30/80mm N>50	SPT
21					S													30,30/50mm N>50	SPT
22					T													30/120mm,30/50mm N>50; No recovery	SPT
23					U													30/60mm N>50; No recovery	SPT
24			(73)															Water inflow 15 l/m	
24			100															Is(50) = 0.24MPa Is(50) = 0.18MPa	x o
24			(0)																
25	-18.47		0			<b>GRANODIORITE SW:</b> Pale grey with black and pink speckles, medium to coarse grained, massive, mainly very high to extremely high strength.  Defects: Generally rare. - Joints @ 10° (1-2/m) - Joints @ 80° (1/m)												Is(50) = 7.37MPa Is(50) = 10.19MPa	x o
25			(79)															Is(50) = 7.94MPa Is(50) = 9.29MPa UCS = 55.0 MPa	x o
26	-19.97		100																
27						Defect surfaces are planar, slightly rough, open to closed and clean. Borehole terminated at 26.5m													
28																			
29																			
30																			

REMARKS \_\_\_\_\_

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Project: **Walkerston Bypass Bakers Ck Bridge**

Borehole No: **BH105**

Start Depth: 23.50m

Finish Depth: 26.50 m

Project No: FG5635

H No:



SCALE 1:5

F:GEOT043/1