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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH124
SHEET 2 of 4
REFERENCE No H10898

PROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - COWLEYS ROAD OVERPASS BRIDGE
LOCATION PIER 2 - (Ch. 84547.8 23.5m LHS) COORDINATES 721544.1 E; 7654838.3 N
PROJECT No FG5635 SURFACE R.L. 9.01m PLUNGE _____ DATE STARTED 3/11/10 GRID DATUM MGA 94
JOB No 242/33B/6 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 5/11/10 DRILLER Cairns Drilling 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
10	-0.99													
11					G	SAND (ALLUVIAL) (Cont'd)							11,11,12 N=23	SPT
12					H		(SP)						9,12,10 N=22	SPT
13														
14					J								5,6,7 N=13	SPT
15	-5.49				K	Clayey Silty SAND (RESIDUAL) Pale grey, moist, medium dense, medium to coarse grained.	(SC)						8,15,19 N=34	SPT
16														
17	-7.29				L	Sandy Silty CLAY (RESIDUAL) Pale grey, moist, hard. High plasticity; fine to medium grained sand.	(CH)						17,21,29 N=50	SPT
18					M	Silty CLAY (RESIDUAL) Mottled pale grey, orange and black, moist, hard. High plasticity; Fe/Mn oxide nodules; some minor sandy layers.	(CH)						10,17,26 N=43	SPT
19														
20	-8.49				N								8,14,19 N=33	SPT

REMARKS _____

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ENGINEERING BOREHOLE LOG

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SYMBOLS REFER FORM F:GEOT 017/6-2010

BOREHOLE No BH124
SHEET 3 of 4
REFERENCE No H10898

PROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - COWLEYS ROAD OVERPASS BRIDGE
LOCATION PIER 2 - (Ch. 84547.8 23.5m LHS) COORDINATES 721544.1 E; 7654838.3 N
PROJECT No FG5635 SURFACE R.L. 9.01m PLUNGE _____ DATE STARTED 3/11/10 GRID DATUM MGA 94
JOB No 242/33B/6 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 5/11/10 DRILLER Cairns Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	SAMPLE REC %	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
20	-10.99				Silty CLAY (RESIDUAL) (Cont'd)								
21				O								13,16,29 N=45	SPT
22				P		(CH)						13,25,20 N=45	SPT
23	-14.39												
24				Q	GRANODIORITE Intrusive, medium to coarse grained, massive, crystalline, porphyritic, acidic, igneous rock HW: Generally exhibits the engineering properties of pale grey, orange and black, moist, hard, silty clay.							29,29,30/140mm N>50	SPT
25													
26				R								18,24,30/110mm N>50	SPT
27				S		HW						25,30/70mm N>50	SPT
28													
29				T								19,30/120mm N>50	SPT
30													

REMARKS _____

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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH124
SHEET 4 of 4
REFERENCE No H10898

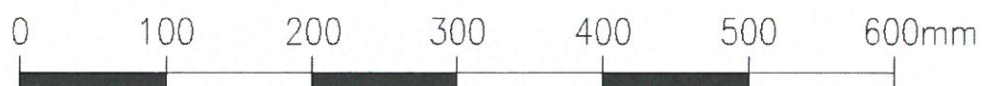
PROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - COWLEYS ROAD OVERPASS BRIDGE
LOCATION PIER 2 - (Ch. 84547.8 23.5m LHS) COORDINATES 721544.1 E; 7654838.3 N
PROJECT No FG5635 SURFACE R.L. 9.01m PLUNGE _____ DATE STARTED 3/11/10 GRID DATUM MGA 94
JOB No 242/33B/6 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 5/11/10 DRILLER Cairns Drilling Pty Ltd

DEPTH (m)	R.L. (m)	FLUXER CUSHING 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
30	-20.99			U	GRANODIORITE HW: (Cont'd)							28,30/110mm N>50	SPT
31				V									
32						HW						30/90mm N>50	SPT
33				W								30/20mm N>50	SPT
34	-24.59		(100)		SW: Pale grey speckled black, mainly very high to extremely high strength. 30% mafic minerals. Defects: Very rare. - Some drilling-induced breaks (1-2/m)							Is(50) = 1.59MPa Is(50) = 6.45MPa	x o
35						SW						Is(50) = 5.64MPa Is(50) = 3.25MPa	x o
36	-27.56		100									Is(50) = 10.01MPa Is(50) = 9.46MPa	x o
37					Borehole terminated at 36.57m								
38													
39													
40													

REMARKS _____

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Project: **Walkerston Bypass Geotechnical Investigation**
Borehole No: BH124 (Cowleys Road Bridge Ch. 84547.8 23.5m left)
Start Depth: 33.60 m
Finish Depth: 36.57 m
Project No: FG5635
H No: 10898



SCALE 1:5

F:GEOT043/1