#### **COPYRIGHT NOTICE**

This geotechnical log and its associated data (the Document) is licensed by the Queensland Department of Transport and Main Roads under the <u>Creative Commons Attribution 4.0 Licence</u> (CC BY 4.0). When reusing the Document, in whole or in part, please attribute the Department as follows: "(c) State of Queensland (Department of Transport and Main Roads) 2020, licensed under the CC BY 4.0 Licence". This licence does not apply to the Queensland Government logo or trademarks.

#### **LIMITATION OF LIABILITY**

The CC BY 4.0 Licence contains a comprehensive Disclaimer of Warranties and Limitation of Liability. In addition, please note that this Document was prepared for Departmental use only. Reuse of the Document by anyone for any other purpose could result in error and/or loss. You should obtain professional advice before making decisions based on the contents of the Document.

When reproducing any part of this Document, you must also reproduce this limitation of liability notice in addition to the italicised attribution statement above.

Retrieved from the Queensland Geotechnical Database http://qgd.org.au/



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

BOREHOLE No \_\_\_BH127\_\_\_

SHEET \_\_1\_ of \_\_4\_\_

REFERENCE No \_\_\_H10885\_\_\_

PROJECT									
LOCATION	ABUTMENT B - (Ch. 84575.6 22.0m LHS) COORDINATES 721571.6 E; 7654834.3 N								
PROJECT No	FG5635								
JOB No	_242/33B/6	_ HEIGHT DATUM _AHD BEARING _	DATE COMPLETED 3	30/10/10 DRILLER Cairns Drilling Pty Ltd					
(E) R.L. (m) PLL (m) 0 9.19	AUGER CASING WASING WASING CORE DRILLING % ( ) % AMPLE	MATERIAL DESCRIPTION	INTACT SPACING (mm)  WEATHERING (mm)  SOURCE SERVING (mm)	GRAPHIC LOG CRAPHIC LOG AND TEST RESULTS SAMPLES TESTS TESTS					
-1	A	Clayey SAND (ALLUVIAL) Brown to mottled yellow, moist, loose.  Minor fine gravel fraction.	(SC)	3,3,4 N=7 SPT					
Files > Datgs (CPT Tool ght) Add-in 12/12/2011 15:33	В	Silty CLAY (ALLUVIAL) Pale brown to yellow, moist, very stiff. High plasticity; minor sand and gravel fraction.	(CH)	5,8,11 N=19 SPT					
WALKERSTON BYPASS.GPJ < CDrawningFl	c			5,8,11 N=19					
-6	D	SAND (ALLUVIAL) Pale grey, wet, loose to mainly medium dense, mostly fine to medium grained.  Some coarse sand to fine gravel bands with minor silt.		3,4,5 N=9					
Log A ENGINEERING BOREHOLE LOG W LITHOLOGY COWLEYS:	E		(SP)	5,6,6 N=12					
010, DMR, LIB, 014,61B, Log	F			6,7,9 N=16					
	S Note: *Failure ap	pears to have occured along a pre-existing defect pl	ane.	LOGGED BY JLo / ME					



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

PROJECT	WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - COWLEYS ROAD OVERPASS BRIDGE							
						NATES 721571.6 E; 7654834.3	3 N	
PROJECT No		SURFACE R.L. 9.19m PLUNGE						
IOB No	_242/33B/6	HEIGHT DATUM AHD BEARING		DATE COMPLETED .	30/10/10	DRILLER <u>Cairns</u> <u>Drilling</u>	Pty Ltd	
R.L. (m) 10 -0.81	A A CASH A CASH A CASH BORING CORE DRILLING CORE DRILLING CORE DRILLING CASH A	MATERIAL DESCRIPTION	LITHOLOGY USC WEATHERING	INTACT DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA  AND  TEST RESULTS	SAMPLES	
-1.51	G	SAND (ALLUVIAL) (Cont'd)  Clayey Silty SAND (ALLUVIAL) Pale grey, moist, medium dense, medium	(SP)				SPT	
-11 		to coarse grained.				57.44		
- 13	н		(SC)			5,7,11 N=18	SPT	
-14 -5.21	J	Condu Sille CLAV (DESIDUAL)			ļ   	10,15,19 N=34	SPT	
- 15 - 15 	к	Sandy Silty CLAY (RESIDUAL) Pale grey to mottled yellow, moist, hard. High plasticity; fine to medium grained sand fraction.			1	14,26,30/120mm N>50		
-17 -8.61	L		(CH)			14,23,29 N>50	SPT	
-8.61	M	Silty SAND (RESIDUAL) Pale grey, moist, medium dense, medium grained sand.	(SM	<del>-</del>		9,11,14 N=25	SPT	
-19 -10.21	N	Silty CLAY (RESIDUAL) Mottled pale grey and orange, moist, hard.	(CH)			12,18,22 N=40		
	S Note: *Failure app	LOGGED BY JLo / ME						



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

BOREHOLE No \_\_\_BH127\_\_\_

SHEET \_\_3\_\_ of \_\_4\_\_

REFERENCE No \_\_\_H10885\_\_\_

PROJ		WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - COWLEYS ROAD OVERPASS BRIDGE  ABUTMENT B - (Ch. 84575.6 22.0m LHS) COORDINATES 721571.6 E; 7654834.3 N										
LOCA		ABOT MENT B - 101. 04373.0 22.0 11 E1 (0)								1/10 GRID DATUM MGA 94		
JOB N		242/33B/6 HEIGHT DATUM AHD BEARING DATE COMPLETED 30/10/10								Pty Ltd_		
PTH (m)	R.L. (m)	R IG BORING DRILLING	RQD ()%	SAMPLE	MATERIAL DESCRIPTION			INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA  AND  TEST RESULTS	SAMPLES TESTS
-21	-10.81		REC 70	H	High plasticity; minor sandy layers. Silty CLAY (RESIDUAL) (Cont'd)		(CH)				11,18,23 N=41	SPT
233	-13.11			P	GRANODIORITE Intrusive, medium to coarse grained, massive, crystalline, porphyritic, acidic, igneous rock HW: Pale grey, orange and black, moist, hard, silty clay.						14,29,30/60mm N>50	SPT
SS.GPJ < <drawngfile>&gt; Datget CPT</drawngfile>				Q			HW				30/120mm N>50	SPT
S FG5635- WALKERSTON BYPA,			(0) 100 (56)	R				[			30/60mm N>50	SPT
A 2 S 2 S 2 S 2 S 2 S 2 S 2 S 2 S 2 S 2	-17.23	3	91 (54)		MW: Pale grey speckled, dark grey and orange, generally low to medium strength.  Defects: - Joints @ 10-30° (7/m)  Defects are generally subplanar, rough and open.		MV	,			Is(50) = 0.16MPa; * Is(50) = 0.22MPa; *	x o
og A_ENGINEERING BOREH	-19.6	2			SW: Pale grey to grey, high to very high					  -  -	Is(50) = 0.97MPa Is(50) = 0.10MPa; *	x 0
LID DMR LIB 01A.GLB Lo			(96)		SW: Pale grey to grey, high to very high strength.		sv	V			Is(50) = 3.28MPa Is(50) = 1.43MPa	
ō[_30	REMAR	KS Not	e:_*Failu	e ap	pears to have occured along a pre-existing defect plant	ne.					LOGGED BY	
											JLo / ME	



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

BOREHOLE No \_\_\_\_BH127\_\_\_

SHEET \_\_\_4\_\_ of \_\_4\_\_

REFERENCE No \_\_\_\_H10885\_\_\_

PRO	IECT											
		ABUTMENT B - (Ch. 84575.6 22.0m LHS) COORDINATES 721571.6 E; 7654834.3 N										
PRO	JECT No	0 FG5635 SURFACE R.L. 9.19m PLUNGE DATE STARTED 30/10/10					0/10 GRID DATUM MGA 94					
JOB					HEIGHT DATUMAHD BEARING							
05 DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING	RQD ()%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA  AND  TEST RESULTS  AWBIES
-	20.01				MICROGRANODIORITE SW: (Cont'd) Defects: Very rare.							Is(50) = 5.31MPa x - Is(50) = 1.86MPa o -
-31					Some irregular and subvertical calcite veins.		SI	w				Is(50) = 7.56MPa x - Is(50) = 1.02MPa o
	-22.38		100									IS(50) - 1.02IVIFA 0
32 33 34 35 34 35 35 35 35 35 35 35 35 35 35 35 35 35					Borehole terminated at 31.57m							
		2020 17				$\perp$	$\perp$			†		LOCOFDRY
REMARKS Note: *Failure appears to have occured along a pre-existing defect plane.								LOGGED BY JLo / ME				

Project: Walkerston Bypass Geotechnical Investigation

Borehole No: BH127 (Cowleys Road Bridge Ch. 84575.6 22.0m left)

Start Depth: 25.56 m Finish Depth: 31.57 m Project No: FG5635 H No: 10885



