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ENGINEERINGBOREHOLE LOG

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

BOREHOLE No _____BH100 ____

SHEET ____1__ of ___4__

REFERENCE No ____H10883 ____

	OJECT CATION	WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BAKER'S CREEK BRIDGE Abutment A, LHS COORDINATES 718723.4 E; 7655041.7 N								
	OJECT No B No				SURFACE R.L. 9.84m PLUNGE HEIGHT DATUM AHD BEARING					
o DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING	RQD ()% CORE REC%		MATERIAL DESCRIPTION	LITHOLOGY	USC	INTACT DEFECT STRENGTH SPACING (mm)		ADDITIONAL DATA AND TEST RESULTS AWBIES SAMPLES SAMP
-					Sandy CLAY (ALLUVIAL) Grey-brown, moist, firm to stiff.					Based on Driller's logs only
-1				Α	Low plasticity; medium to coarse grained sand.		(CL)			2,4,4 N=8
Nt Add-In 01/09/2011 14:54	7.34			В	Silty CLAY (ALLUVIAL) Brown, moist, stiff to very stiff. Medium plasticity.	-				3,6,7 N=13
3J < <drawingfile>> Datgel CPT Tool gl</drawingfile>				С			(CI)			4,7,10 N=17
OLD DMR, LIB_01A GLB LOg A_ENGINEERING BOREHOLE LOG W LITHOLOGY BAKERS FG8635. WALKERSTON BYPASS.GPJ < <drawningfile>> Datgel CPT Tool gilnt Add-in 01/09/2011 14:54</drawningfile>	4.89			D	Clayey SAND (ALLUVIAL) Grey, moist, medium dense to mainly dense. Medium to coarse grained sand.	_				6,11,11 N=22 SPT
OREHOLE LOGW LITHOLOGY BAKEF				E			(SC			11,16,22 N=38
ENGINEERING BC	1.24			F	Cemented sand and fine to medium gravel at 8.0m					30/80mm N>50
QLD_DMR_LIB_01A.GLB_Log_A_E					GRANODIORITE Intrusive, coarse grained, massive, crystalline, acidic igneous rock XW: Generally exhibits the engineering properties of brown-grey, moist, hard, sandy silty clay.		xw			
	REMARK	S								LOGGED BY JA
										-



ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH100 SHEET 2 of 4 SHEER H10883

WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BAKER'S CREEK BRIDGE **PROJECT** COORDINATES 718723.4 E; 7655041.7 N LOCATION Abutment A, LHS PROJECT No_FG5635_____ SURFACE R.L. _ 9.84m PLUNGE _ _ _ _ DATE STARTED 28/10/10 GRID DATUM MGA94 Zone 55 HEIGHT DATUM <u>AHD</u> BEARING ____ JOB No DATE COMPLETED 28/10/10 DRILLER <u>Drillsure Pty Ltd</u> R.L. RQD INTACT DEFECT ADDITIONAL DATA ()% STRENGTH **SPACING** (m) DEPTH (m) MATERIAL AND GRAPHIC SAMPLE AUGER CASING CASING CASING CASING **DESCRIPTION** TESTS CORF **TEST RESULTS** OSC REC % 10 $I \cup I \cup I \cup I$ GRANODIORITE XW 11,13,17 -0.46 G SPT XW: (Cont'd) N = 30DOLERITE / BASALT Extrusive, fine to medium grained, massive crystalline, intermediate igneous rock XW: Generally exhibits the engineering properties of brown, moist, hard, clayey silt. 8,15,19 Н SPT XW LIB_01A.GLB Log A_ENGINEERING BOREHOLE LOGW LITHOLOGY BAKERS FG6635- WALKERSTON BYPASS.GPJ <<p>CD awingFile>> Datgel CPT Tool gilkt Add-In 01/09/2011 14:54 6.11.16 SPT N=27 -4.16 DOLERITE / BASALT HW: Brown-grey, moist, hard, gravelly sandy clay. 10,18,27 SPT N=45 30.30/50mm L SPT N>50 HW 10,22,30 SPT М 25.30.25 SPT N>50 LOGGED BY REMARKS_ JA



ENGINEERING BOREHOLE LOG

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

BH100 **BOREHOLE No** _<u>3</u>_ of _<u>4</u>_ SHEET

H10883 REFERENCE No **PROJECT** WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BAKER'S CREEK BRIDGE COORDINATES 718723.4 E; 7655041.7 N Abutment A, LHS LOCATION PROJECT No_FG5635 _____ SURFACE R.L. _ 9.84m PLUNGE _ _ _ _ GRID DATUM MGA94 Zone 55 DATE STARTED 28/10/10 HEIGHT DATUM __AHD___ BEARING _____ DRILLER <u>Drillsure Pty Ltd</u> JOB No DATE COMPLETED 28/10/10 R.L. RQD INTACT DEFECT ADDITIONAL DATA STRENGTH **SPACING** ()% (m) DEPTH (m) **MATERIAL** AND GRAPHIC SAMPLE **DESCRIPTION** AUGER CASING WASHE CORE E SAMPL TESTS WEAT FL MHHH 2000 CORF **TEST RESULTS** nsc REC % 20 DOLERITE / BASALT HW: (Cont'd) Generally exhibits the engineering properties of brown-red, sandy clayey 30,30/100mm Р SPT N>50 21 Gravel fragments are angular and <30mm. Grading to low strength rock with depth. 30,30/50mm Q SPT BAKERS FG6635-WALKERSTON BYPASS.GPJ <-CDrawingFile>> Datgel CPT Tool glikt Add-in 01/09/2011 14:54 N>50 30/50mm HW N>50 10.30.30/100mm SPT S 30/90mm T N>50; No recovery LIB_01A.GLB Log A_ENGINEERING BOREHOLE LOGW LITHOLOGY -17.36 (0)DOLERITE / BASALT Is(50) = 1.13MPa O 100 MW: Brown, fine grained, massive, low to (0) high strength. MW Altered & BZ 100 (29) Broken and fractured throughout. -18.20 -28 **DOLERITE / BASALT** Is(50) = 3.51MPa0 SW: Grey, fine grained, massive, high to 100 Is(50) = 10.05MPaХ mainly very high strength. (37)Defects: Is(50) = 7.19MPa- Joints @ 20° (<1/m) - 29 Joints @ 60° (<1/m) SW Broken & altered MW zone Defects are generally planar, slightly rough and iron stained. 100 Is(50) = 3.13MPa Is(50) = 3.27MPa (93) Frequent multidirectional calcite veins. LOGGED BY REMARKS. JA



DMR

ENGINEERING BOREHOLE LOG

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

BH100 BOREHOLE No <u>4</u> of <u>4</u> SHEET REFERENCE No H10883

WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BAKER'S CREEK BRIDGE **PROJECT** COORDINATES 718723.4 E; 7655041.7 N LOCATION Abutment A, LHS PROJECT No FG5635 SURFACE R.L. 9.84m PLUNGE ____ DATE STARTED 28/10/10 GRID DATUM MGA94 Zone 55 DRILLER <u>Drillsure Pty Ltd</u> JOB No _____ HEIGHT DATUM __AHD ___ BEARING _____ DATE COMPLETED _28/10/10 R.L. RQD INTACT DEFECT CASING (m) STRENGTH SPACING (mm)

WEEVER WITH THE ADDITIONAL DATA ()% DEPTH (m) MATERIAL AND SAMPLE DESCRIPTION TESTS SAMPL CORE **TEST RESULTS** REC % 30 DOLERITE / BASALT SW: (Cont'd) Is(50) = 5.02MPa Is(50) = 4.75MPa SW х о Is(50) = 4.13MPa UCS = 66.6 MPa 0 100 Borehole terminated at 30.94m LOGGED BY REMARKS_ JA

Project: Walkerston Bypass Bakers Ck Bridge

Borehole No: **BH100**Start Depth: **27.20**m
Finish Depth: 30.94 m
Project No: FG5635
H No: H10883



