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

BOREHOLE No	BH125
SHEET	_1_ of _4_
REFERENCE No	H10881

PROJECT	WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - COWLEYS ROAD OVERPASS BRIDGE										
LOCATION	ABUTMENT B - (Ch. 84575.5 on control line) COORDINATES No <u>FG5635</u> SURFACE R.L. <u>9.10m</u> PLUNGE DATE STARTED <u>27/10/10</u> GRID D										
JOB No <u>242/33B/6</u>					HEIGHT DATUM _AHD BEARING			DATE COM	IPLETED _	28/10	0/10 DRILLER <u>Cairns</u> <u>Drilling Pty Ltd</u>
R.L. (m) PEPTH (m)	AUGER CASING WASH BORING) ()	QD)% DRE C%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	INTACT STRENGTH ボデェミュラゴ	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS AMDIES RESULTS
-1					Clayey SAND (ALLUVIAL) Brown, moist, loose to medium dense, fine to coarse grained.		(SC)				3,4,5 N=9
5.70	<u>)</u>				Silty SAND / Sandy SILT (ALLUVIAL) Pale grey to mottled orange, moist, medium dense, very stiff.	and a contract of					5,8,10 N=18 SPT
-5				С			(SM-MH)				6,10,10 N=20 SPT
-6 				D	SAND (ALLUVIAL) Pale grey, wet, medium dense, mostly fine to medium grained. Some coarse sand to fine gravel bands with minor silt fraction.						4.7.6 N=13
-8				Е			(SP)				6,10,10 N=20
-9				F							7,11,11 N=22 SPT
REMARK	.s 			· — ·		 		 			LOGGED BY JLo / ME



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

BOREHOLE No ____BH125___

SHEET ___2__ of ___4__

REFERENCE No ____H10881___

PROJECT	WALKERSTON	<u>BYPASS PROJECT GEOTECHNICAL INVES</u>	STIG	ATIC	N - COWLE	EYS ROA		
LOCATION		(Ch. 84575.5 on control line)						OORDINATES 721568.2 E; 7654812.1 N
PROJECT No		SURFACE R.L 9.10m_ PLUNGE						
JOB No	242/33B/6	HEIGHT DATUM AHD BEARING			DATE COM	IPLETED _	28/10	0/10 DRILLER <u>Cairns</u> <u>Drilling Pty Lt</u>
DEPTH (m)	MBONGING MEO	MATERIAL DESCRIPTION	LITHOLOGY	THERING	INTACT STRENGTH ボチェヌンジロ	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS
10 -0.90	AUGER CASING WASHBC CORE DR BANDO SAMPLE		Ē	USC	파울프론기식의	7,000	GRA	TEST RESULTS
-		SAND (ALLUVIAL) (Cont'd)						8,12,12
- - - 11	G			(SP)				0,12,12 N=24 SP1
-2.60		Silty SAND (ALLUVIAL) Pale grey, moist, medium dense.						
- 12 	н	Layers of varying grain size and fines content.						4,7,9 N=16 SPT
— 13 —				(SM)				
-14 -5.70	J							3,8,11 N=19 SPT
-5.70		Silty SAND (RESIDUAL) Orange and pale grey, moist, dense,						
-6.70	K	medium to coarse grained sand with some fine gravel.		(SM				11,14,21 N=35 SP
16	L	Silty CLAY (RESIDUAL) Mottled pale grey and orange, moist, hard. High plasticity; Fe/Mn oxide nodules; some minor sandy layers.						9,15,20 N=35
-17 -18 -19	м							11,17,21 N=38
-18				(CH				11,17,21 SP
	N							N=38
- - - - - - - -	0				-			11,25,30/130mm N>50
REMARK	s							LOGGED BY JLo / ME



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

PROJECT LOCATION	WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - COWLEYS ROAD OVERPASS BRIDGE ABUTMENT B - (Ch. 84575.5 on control line) COORDINATES 721568.2 E; 7654812.1 N										
				SURFACE R.L. 9.10m PLUNGE							
JOB No				HEIGHT DATUM AHD BEARING							Pty Ltd
(B) R.L. (m) (m) (m) 20 -10.90	JGER ASING ASH BORIN ORE DRILLI	RQD ()%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	JSC MEATHERING	INTACT STRENGTH ボデェミンドゴ	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES
20 -10.90			Р	Silty CLAY (RESIDUAL)			-			10,17,23	
-11.80			P	(Cont'd)		(CH)				N=40	SPT
-21 - -			Q	GRANODIORITE Intrusive, medium to coarse grained, massive, crystalline, porphyritic, acidic, igneous rock						12,23,30/135mm N>50	SPT
			R	XW: Generally exhibits the engineering properties of pale grey, orange and black, moist, hard, silty clay.		xw				12,19,26	SPT
-						AVV				N=45	
-14.50			S							11,30/110mm N>50	SPT
-24			T	HW: Generally exhibits the engineering properties of pale grey, orange and black, moist, hard, silty clay.						30/130mm N>50	SPT
						HW				30/80mm	-
-25 - 16.25			U				=			N>50	SPI
-10.23		(100)		SW: Pale grey speckled black, very high to extremely high strength. 30% mafic minerals.						— J, 50°, minor Ca infill Is(50) = 3.80MPa Is(50) = 13.87MPa	x 0
- 26 -				Defects: Generally rare.						ls(50) = 11.04MPa	x -
		100 (95)		- Joints @ 20-50° (1/m) Defects are generally planar, smooth and open.						ls(50) = 8.31MPa	0 -
-18.35										— Contact @ 50°, undulose, sharp	-
-28				DOLERITE / BASALT Extrusive or intrusivre, fine to medium grained, massive, crystalline, basic igneous rock SW: Dark grey, mainly very high to extremely high strength.	900	SW				ls(50) = 8.93MPa	- - - - -
-29		100		Defects: - Joints @ 10-20° (1/m) - Joints @ 30-60° (<1/m) - Occasional subvertical calcite veins Defects are generally planar, smooth and open.						ls(50) = 4.84MPa	0 :
		100									
REMARK	S									LOGGED BY JLo / ME	



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

BOREHOLE No ___BH125___

SHEET __4__ of __4__

REFERENCE No ___H10881___

					3YPASS PROJECT GEOTECHNICAL INVES				<u>D OV</u>	<u>/ERPASS BRIDGE</u> DORDINATES 721568.2 E; 7654812.1 N	
ROJ	ECT No	FG5	635	<u> </u>	SURFACE R.L. 9.10m PLUNGE			DATE STARTED			
OB I		242/	33B/6		HEIGHT DATUM _AHD BEARING			DATE COMPLETED	28/10	/10 DRILLER <u>Cairns Drilling P</u>	ty Ltd_
00 DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING	RQD ()% CORE REC%	SAMPLE	MATERIAL DESCRIPTION DOLERITE / BASALT SW: (Cont'd)	LITHOLOGY	USC	INTACT DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS IS(50) = 11.38MPa IS(50) = 8.42MPa	SAMPLES O X TESTS
- - - - - - 31	-22.25		100		Borehole terminated at 31.35m		sw				
-32					Boreliole terminated at 5 1.55m						
-33											
-34											
-36											-
											,
38											
37											
						L		<u> </u>		LOGGED BY	
	REMAR	KS								JLo / ME	

Project: Walkerston Bypass Geotechnical Investigation
Borehole No: BH125 (Cowleys Road Bridge Ch. 84575.5 on control line)

25.35 m Start Depth: Finish Depth: 31.35 m Project No: FG5635 H No: 10881



