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TMR JAN 15.GLB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY FG6184 - BOREHOLES.GPJ <<DrawingFile>> Datgel CPT Tool gINt Add-in 04/03/2015 10:51

ENGINEERINGBOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No __BH133__
SHEET __1_ of __4__
REFERENCE No __12078___

PROJEC					Geotechnical Investigation - Stage 1				 DINATES <u>720977.7 E; 7657952.</u>	
		G618	84	. -	SURFACE R.L. <u>12.44m</u> PLUNGE			DATE STARTED <u>4/10/14</u>	GRID DATUM GDA 94 /MG/	<u> </u>
R.	L.		DOD	· — -	HEIGHT DATUM <u>AHD</u> BEARING	 	 	INTACT DEFECT		<u> </u>
DEPTH (m)	1)	BORING DRILLING	()%		MATERIAL	ΛĐO	THERING	STRENGTH SPACING (mm) 500000000000000000000000000000000000	ADDITIONAL DATA AND	S
o 12	병	등등등	CORE REC %	SAMPLE	DESCRIPTION		USC	GRAPH	TEST RESULTS	SAMPLES
-	1.94				Gravelly CLAY (FILL)		(CI)			-
- - -	1.54				Silty CLAY (ALLUVIUM) Pale orange-brown and grey, dry to moist,					- - - -
- -1 -				Α	stiff to very stiff. High plasticity.				4,7,8 N=15	SPT T
- - -									10-15	- - -
- - -2 -									457	-
- - -				В			(CH)		4,5,7 N=12	SPT =
- - -							(011)			- - - -
-3 - - -				С					5,6,10 N=16	SPT
- - -								<u> </u>		-
- 4 				D					3,5,8	SPT -
4.60	7.84				Cife Classes CAND (ALL INVILIA)				N=13	- -
- - - - 5					Silty Clayey SAND (ALLUVIUM) Pale brown and grey, moist, medium dense. Fine grained.					-
- - -				Е			(SC)		6,9,10 N=19	SPT -
- - -										- - - -
-6 -6.20	6.24			F	Silty CLAY (ALLUVIUM)				6,4,7_ N=11	SPT]
- - - -					Brown and grey, moist, stiff to very stiff. High plasticity.					-
- - - -				G					5,7,11 N=18	SPT -
- - - -									N=18	-
- - - -8							(CH)			-
- - -				Н			(СП)		5,7,9 N=16	SPT -
-9 - - -				J					3,5,8 N=13	SPT
										-
7 10 REM	ARKS#	# San	npl <u>e</u> f <u>ail</u> e	d alo	ong existing defect surface.			: : : : : : : : : :	LOGGED BY	
	-								ME	



TMR JAN 15.GLB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY FG6184 - BOREHOLES.GPJ <<DrawingFile>> Datgel CPT Tool gINt Add-in 04/03/2015 10:51

ENGINEERINGBOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No __BH133 __

SHEET __2__ of __4__

REFERENCE No __12078 ___

	d Geotechnical Investigation - Stage 1 Overpass Pier 1; CH: 5599m;		NATES
PROJECT No_FG6184	SURFACE R.L. 12.44m PLUNGE HEIGHT DATUM AHD BEARING	DATE STARTED 4/10/14	GRID DATUM GDA 94 /MGA Zone 55
R.L. (m) RQD () %	MATERIAL DESCRIPTION	USC C C (mm) C C C C C C C C C C C C C C C C C C	ADDITIONAL DATA AND TEST RESULTS RAWLES RAW
10 2.44 < 0 > 0 REC % 0	Silty CLAY (ALLUVIUM)		4,6,8 N=14 SPT
	11.50m: Trace fine grained sand.		4,4,7 N=11
M			5,7,10 N=17
- 13 13		(CH) +	5,6,9 N=15
P			8,8,11 N=19 SPT -
Q Q -3.36			5,7,9 N=16
15.80 -3.30 -16 	Silty SAND (ALLUVIUM) Pale grey, moist, medium dense. Fine to medium grained.		3,4,7 N=11
		(SM)	13,11,14 N=25
T	Silty CLAY (RESIDUAL?) Pale grey and brown, moist, very stiff. High plasticity.		8,9,12 N=21 SPT -
		(CH)	5,7,9 N=16
REMARKS <u># Sample failed ale</u>	ong existing defect surface.		LOGGED BY ME



TMR JAN 15.GLB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY FG6184 - BOREHOLES.GPJ <<DrawingFile>> Datgel CPT Tool gINt Add-in 04/03/2015 10:51

ENGINEERINGBOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014

	JECT					Geotechnical Investigation - Stage 1							
	ATION					Overpass Pier 1; CH: 5599m;						ORDINATES <u>720977.7 E; 7657952</u>	
JOB 1						SURFACE R.L. <u>12.44m</u> PLUNGE _ HEIGHT DATUM <u>AHD</u> BEARING _							
0001			_			TEIGHT DATOM _ALD BEARING _					10/1	JALLER SAMI BINING	
	R.L. (m)	5	S S	RQD ()%					G	INTACT DEFECT STRENGTH SPACING	ڻ ق	ADDITIONAL DATA	
DEPTH (m)		S BORING	Z Z			MATERIAL	\ 06Y		ERI	STRENGTH SPACING (mm)	GRAPHIC LOG	AND	S
DEP		E SE	뷔	CORE	SAMPLE	DESCRIPTION	LITHOLOGY	ွှင့်	EATH	: ::-=	3APH	TEST RESULTS	SAMPLES
20	-7.56	₹0≥0	3	REC %	/S	Silty Sandy CLAY (RESIDUAL)		: ا ک	≥ "		5		/S ==
-					٧	Pale brown and grey, moist, very stiff.				: : : : : 		5,8,9 N=17	SPT =
-						High plasticity.		(CF	H)				-
-													-
21.10	-8.66								1	<u> </u>	$\downarrow \downarrow$		_
					W	Silty SAND (RESIDUAL) Pale brown and grey, moist, medium dense.						9,7,8 N=15	SPT -
-						Medium grained.		(SN	M)	<u> </u>			-
21.90	-9.46								1	<u> </u>]
- 22					Х	Silty CLAY (RESIDUAL) Pale brown and grey, moist, very stiff.						6,8,10	CDT -
-					^	High plasticity. Trace fine grained sand.		(CF	H)			N=18	SPT -
22.80	-10.36					Trace into granted carra.				:::::: :			_
- 23	-10.50					Sandy Silty CLAY (RESIDUAL)			T		1		-
- 23					Υ	Pale brown and grey, moist, very stiff. High plasticity.				: : : : : : : : : : : : : : : : : : : :		8,10,13	SPT -
-												N=23	
								(CL	_/				-
- - -24								(CF	(٦	<u> </u>			
					Z							4,6,11 N=17	SPT =
-										<u> </u>		N-17	_
24.80	-12.36								1	<u> </u>			
- - 25						MICRODIORITE (Kgwu) HW: Brown, medium to coarse grained,	+			<u> </u>			-
-					AA	very low strength.	+	1.11/	۸,			19,25,30/120	SPT -
-							$\begin{bmatrix} + \end{bmatrix}$	HV	'V	: : : : : : : : : : : : :			-
-	-13.56						+ , +						
26 <u>-00</u> -	-13.30	1 4		(38)	AB	MICRODIORITE (Kgwu)	Ħ		Ť		\vdash \dagger	30/30- Is(50) = 0.78MPa; #	DSPT (26.05m)-
-						MW: Grey and brown, fine grained, massive, medium to high strength.	++				Ш	. ,]
-				(38)		,	+1				Ħ	-26.42m-26.60m: HFZ; Is(50) = 1.62MPa; #	D
-				()			L+1	MV	N			13(30) - 1.02Wi a, #	(26.70m)_
- 27 - -							+					— 27.08m: Clay seam, 10°, 10mm.]
- - -27.53	-15.09						++				-		-
-						MICRODIORITE (Kgwu) SW: Grey, fine to medium grained,	+-					_	-
- - -28						massive, very high strength.	++					Is(50) = 9.87MPa Is(50) = 7.49MPa	A _(27.85m) - D _(27.90m)
-				100		Defects: - Js; 0°-30° (2/m); PI/Ro, TI;	[+]					— 28.20m: Clay seam, 5°, 20mm.	(27.50.11)
-				(100)		•	+						
-							++	SV	v			Is(50) = 10.54MPa Is(50) = 4.35MPa	A _(28.63m) D _(28.68m)
- 29							+					UCS=88.5MPa	(25.5011)
							+]						
-							+++					Is(50) = 5.73MPa; #	
-							[+]					15(00) - 0.7 31VIPa, #	(29.60m)
30		(0 # Si	<u></u>	nlo foile	d ala	and existing defect surface	$\Gamma + 1$				Ш	LOGGED BY	
RI	EMARK	S <u># 58</u>	11[]	pie raile	u aic	ong existing defect surface.						ME	



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ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No BH133 SHEET _4_ of _4_ REFERENCE No _12078 ___

PROJECT	_Mack	ay Ring F	Road	Geotechnical Investigation - Stage 1				
LOCATION	Peak_	<u>Downs H</u>	wy C	<u> </u>			COORDINATES <u>720977.7 E; 7657952.6 N</u>	<u> </u>
PROJECT No	F <u>G61</u>	84		SURFACE R.L. <u>12.44m</u> PLUNGE _			DATE STARTED <u>4/10/14</u> GRID DATUM <u>GDA 94 /MGA Z</u>	<u> </u>
JOB No				HEIGHT DATUM <u>AHD</u> BEARING _			DATE COMPLETED 6/10/14 DRILLER Saxon Drilling	
R.L. (m) HL 430 30 -17.56	AÜGER CASING WASH BORING CORE DRILLING	RQD ()% CORE REC%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	INTACT DEFECT STRENGTH SPACING (mm) O J J H A W A W A W A W A W A W A W A W A W A	TESTS
- 17.50				MICRODIORITE (Kgwu) SW: (Cont'd)	+			-
- - - - - -		100 (74)		Sw. (Conta)	+	SW	N = -30.51m-30.70m: BZ;	-
-31 31.19 -18.75		100			+			
- 32 32 33 34 35 36 37 37 38 39 39				Borehole terminated at 31.19m				
	S <u># Sa</u> r	nple faile	d alo	ong existing defect surface.			LOGGED BY	
							ME ME	

DEPARTMENT OF TRANSPORT & MAIN ROADS Geotechnical Branch 35 Butterfield Street, HERSTON Qld 4006 Phone 07 3066 3336



Project No FG Borehole No BH Location Pea Detail Pie Chainage 559 Remarks	k Downs Hwy Overpass	Start Finis	R H No t Depth (m) sh Depth (m) mitted By	06/10/14 12078 26.0 31.19 M.Ensor
Borehole No Location Pea Detail Chainage Remarks	k Downs Hwy Overpass 1 9m	TMR Start Finis	R H No t Depth (m) sh Depth (m)	12078 26.0 31.19
Location Pea Detail Pie Chainage 559 Remarks	k Downs Hwy Overpass 1 9m	Start Finis	t Depth (m) sh Depth (m)	26.0 31.19
Detail Pie Chainage 559 Remarks	1 9m	Finis	sh Depth (m)	31.19
Chainage Remarks	9m			
Remarks	28.2.7	Subr	mitted By	M.Ensor
2 8 8 2 2 8 S 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	28.27		And a second	
N	28.27			
N	2827			
N	2827			
N	28.2			
			A	
			\triangle	
				3
	31.18			-
0 100	000 000	400 500	200	700
0 100	200 300	400 500	600	700