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/



TMR JAN 15.GLB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY FG6184 - BOREHOLES.GPJ <<DrawingFile>> Datgel CPT Tool glNt Add-In 04/03/2015 10:52

ENGINEERING BOREHOLE LOG

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

BOREHOLE No	BH165
SHEET	_1_ of _2_
REFERENCE No	12106

PRO.	JECT	_M	<u>acka</u>	y Ring F	Road	Geotechnical Investigation - Stage 1							
LOC	ATION	_Q!	<u>R Pc</u>	ort Rail C	v <u>erp</u>	<u>ass Abutment A; CH: 11056m;</u>					CC	ORDINATES <u>721196.2 E; 7663285.6 N</u>	
PRO.	JECT No	0 <u>F</u>	<u> 3618</u>	34		SURFACE R.L. <u>19</u> .61m PLUNGE				DATE STARTED 6/	11/	14 GRID DATUM <u>GDA 94 /MGA Zone</u>	<u>55</u>
JOB	No					HEIGHT DATUM AHD BEARING				DATE COMPLETED _7/	11/	14 DRILLER Saxon Drilling	- –
DEPTH (m)	R.L. (m)		WASH BORING CORE DRILLING	RQD ()%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	ESIS
0.20	19.61			KLC //	0,	Silty CLAY (TOPSOIL)	717	(CL		 	_	3, F	-
- - - - - - - - -	10.11					Dark brown, moist, soft. Low plasticity. Trace sand. Rootlets throughout. Silty CLAY (FILL) Pale brown, moist, stiff to very stiff. Medium plasticity. Trace sand.							
	17.51				A	, ,		(CI	1)			3,7,7 N=14	
3					В	Clayey GRAVEL with sand (FILL?) Grey-brown, moist, medium dense to dense. Gravel is angular, <25mm, very high strength.		(G(C)			4,12,16 N=28 SPT	
3.50	16.11				С	Clayey SAND with gravel (RESIDUAL)						20,16,14 N=30 SPT	
- 4 4 	14.61				D	Grey-brown, moist, medium dense. Fine to medium grained sand. Fine, angular to subangular gravel <10mm.		(SC	C)			12,12,15 N=27	
5 6					Е	GRANODIORITE (Kgwu) XW: Recovered as grey, black and white, moist, very stiff to hard Silty CLAY with sand. Fine grained sand.	+			1		5,6,10 N=16	
- - - - - - - - - - -					F		+ + + + + + + + + + + + + + + + + + + +	xv	v			10,12,17 N=29	
- - - - - - - - - - - - - - - - - - -					G		+ + + + +			‡ ‡		11,19,28 N=47	
	10.61				Н		-			+ + + + + +		26,30/80 SPT	
				(97)		MICRODIORITE (Kgwu) SW: Dark grey, fine grained, massive, very high strength.	+ +	sv	٧			9.13m: J; 20°, Pl/Ro, Tl, Cn; 9.15m: Is(50) = 3.99MPa; # D (9.23r	im)
9.40 - - - - 10	10.21	-				GRANODIORITE (Kgwu) SW: Dark grey, medium to coarse grained, massive, very high to extremely high strength.	+ + +	sv	٧			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	-
R	EMARK					org existing defect surface.						LOGGED BY JA	



TMR JAN 15.GLB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY FG6184 - BOREHOLES.GPJ <<DrawingFile>> Datgel CPT Tool glNt Add-In 04/03/2015 10:52

ENGINEERING BOREHOLE LOG

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

BOREHOLE No	BH165
SHEET	_2_ of _2_
REFERENCE No	12106

PROJECT	_Mack	ay Ring F	Road	Geotechnical Investigation - Stage 1							
LOCATIO	N <u>QR</u> F	ort Rail C	v <u>erp</u>	ass Abutment A; CH: 11056m;					CC	OORDINATES <u>721196.2 E;</u>	7663285.6 N
PROJECT	No_FG61	184		SURFACE R.L. <u>19.61m</u> PLUNGE _			DATE S	STARTED 6	<u> </u>	14 GRID DATUM <u>GD</u>	A 94 /MGA Zone 5
JOB No				HEIGHT DATUM <u>AHD</u> BEARING _			DATE COM	MPLETED _7	<u>//11/</u>	14 DRILLER Sax	on Drilling
(m)	IR NG HBORING		SAMPLE	MATERIAL DESCRIPTION	ГІТНОГОСУ	JSC	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES
	61	100 (96) 100 (100)	SAMF	GRANODIORITE (Kgwu) SW: (Cont'd) Defects - Js; 0°-20° (2/m); Pl/Ro, Tl-OP, Cn or slight CA; Trace Pyrite throughout ground mass. Borehole terminated at 14.65m	1+	USC WEAT			EWA CRAF GRAF	Is(50) = 1 Is(50) = 1 	0.70MPa D (11.10m) 1.45MPa A (11.14m) 2.75MPa D (12.50m) 5.52MPa A (14.55m)
20							<u> </u>	<u> </u>		<u> </u>	
REMA	RKS <u>Kgw</u> ı	ı <u> - Wund</u>	aru G	Granodiorite;						-	GED BY
	<u># Sa</u>	mple faile	d alc	ong existing defect surface.						_	IA .

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



Project Name Project No FG6184 Date O7/11/ Borehole No BH165 TMR H No 12106 Location QR Port Rail Overpass Start Depth (m) Detail Abutment A Chainage Remarks FG6184 Abutment A Submitted By JA FG6185 FG6184 BH165 FG6184 BH165 FG6184 BH165 FG6184 FG6184
Borehole No BH165 Cocation QR Port Rail Overpass Detail Abutment A Chainage Remarks Submitted By JA FA165 BH165 TMR H No 12106 14.65 Start Depth (m) 14.65 Submitted By JA FA165 BH165 BH165 BH165 TMR H No 12106 1206 1206 1206 1206 1206 1206 120
Ocation QR Port Rail Overpass Start Depth (m) 9.00 Detail Abutment A Finish Depth (m) 14.65 Chainage Remarks 11056m Submitted By JA
Detail Abutment A Finish Depth (m) 14.65 Chainage Remarks 11056m Submitted By JA FACIST ENTISE ENT
Chainage 11056m Submitted By JA Remarks Facility Faci
Remarks FACES ENIGS
EHIGS ENIGS ENIGS SON 27-
EHIGS EHIGS ENIGS EN
FA6IS SON Z/E
FACES FA
BHI65 BOX Z/2
EHI65 ENI65
BHI65 805 100 2/1
130° (180°)
130° (190°)
5 Fu6184 - MRR BH165 E.O.H = 14.65m
5 Fu6184 - MRR BH165 E.O.H = 14.65m
F46184-MRR BH165 E.O.H = 14.65m