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/

Queensland Government

GEOTECHNICAL BOREHOLE LOG

FINAL 22/12/2017

BH1 BOREHOLE No

Sheet 1 of 3 FOR GEOTECHNICAL TERMS AND H12973 REFERENCE No SYMBOLS REFER FORM F:GEOT 017/8-2014 Beames Brook Bridge Replacement Project PROJECT COORDINATES 324440.4 E; 8022488.6 N LOCATION DATE STARTED 07/11/2017 GRID DATUM MGA94 Z54K FG6513 SURFACE RL 5.02m PLUNGE 90° PROJECT No 23/78A/14 HEIGHT DATUM AHD DATE COMPLETED 08/11/2017 **DRILLER Saxon Drilling** JOB No BEARING ' USCS WEATHERING ADDITIONAL DATA AND TEST RESULTS RQD INTACT DEFECT SPACING SAMPLES TESTS LITHOLOGY SAMPLE STRENGTH DEPTH (RΙ MATERIAL DESCRIPTION (m) CORE REC % ᇁᆂᆂᆂᆿᅼᆿᇛᇬᇬᄛᇂᇂᇕ SAND with Clay (Fill) Pale brown, dry, very dense. Fine to (SC) coarse grained; with fine to medium 10/20mn gravel, subrounded to subangular. 4.22 Sandy CLAY (Alluvium) Yellow brown mottled pale grey, moist, very stiff. Medium plasticity; fine to coarse 5, 10, 13 grained; trace fine to medium SPT gravel, subrounded to subangular. Calcareous. Locally iron stained. From 2.4m: Trace fine to medium 7, 12, 16 gravel, subrounded to subangular. SPT (CI) D SPT 10, 11, 22 From 4.5m: Becoming hard. SPT 7, 13, 12 From 5.5m: Becoming very stiff. N=25 SPT -0.98 SAND (Alluvium) Dark brown, moist, medium dense. Fine to medium grained. Trace clay. 7, 11, 15 With fine to medium gravel, N=26 SPT subrounded. (SP) From 7.0m: Becoming loose. SPT -2.98 (0) Well Cemented GRAVEL MW: Pale grey, fine to medium MW gravel clasts in fine grained calcareous cement, high strength. -3.83 -4.48 35 Silty CLAY (Alluvium) SPT (CI) See over. Continued on next sheet **REMARKS: LOGGED BY REVIEWED BY** R. Bruce S. Foley TMR GEOTECHNICAL BOREHOLE LOG - CREATED WITH HOLEBASE SI

Queensland Government

GEOTECHNICAL BOREHOLE LOG

FINAL 22/12/2017

BOREHOLE No BH1

Sheet 2 of 3

	13		4	Go	V	ernment	SY		GEOTECHNICAL TE REFER FORM F:GE			REFERENCE No	H:	12973
PROJE	СТ	Ве	ean	nes Bro	ok E	Bridge Replacement Project								
OCCATION COORDINATES 324440.4 E; 8022488.6 N										88.6 N				
PROJE	CT No	FG6513 SURFA				SURFACE RL 5.02m	2m plunge 90°			DATE STARTI	ARTED 07/11/2017 GRID DATUM MGA94 Z54K			54K
IOB No	D	23	3/78	8A/14		height datum AHD		RING		DATE COMPLETI	08/11/201			ling
DEPTH (m)	R.L. (m)	AUGER CASING	ORE DRILLING	RQD ()%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING		ADDITIONAL DATA AND TEST RESULTS		SAMPLES TESTS
		<u> </u>	0		J	Silty CLAY (Alluvium) Cont'd. Pale grey mottled pale brown and red-brown, moist, ha Medium plasticity; trace fine to medium grained sand. Locally iro stained.	×-		- - - - - - - - -	-		15, 27	, 30/120mm	SPT
					K		×-		- - - - - - - -				10, 15, 23 N=38	SPT
					L		- X- X- X- X- X- X- X- 	1	- - - - - -				4, 14, 20 N=34	SPT
- 14					М		 		- - - - - -	-			11, 15, 16 N=31	SPT
- - - 15					N		×- ×- ×-		- - - - - -				12, 16, 24 N=40	SPT
- - - 16					0		^- ×- ×- ×- - -		- - - - - -	-			14, 18, 23 N=41	SPT
- 17	-11.98	<u>.</u>		(400)	Р		x- x- x- x- x- x- x- x-		-	-		11, 15	, 20/105mm hb	SPI
- 18 - 19				(100) 100 (100) 100 (88)		SILTSTONE MW: Pale grey mottled orange/r fine grained, generally high strength. Stong iron alteration J's: 0°-15° (4-5/m), PI-Un/Ro, TI St Js: 20°-40° (1/m) Un/Ro, TI, Fe	I, Fe	MW	H M	M C C		Is(5	0)=2.29 MPa 0)=3.35 MPa 5=31.80 MPa	A (17.05m)_ D (17.06m) (17.47m)
	-14.98	3				Continued on next sheet	XX							
RF	EMAF	RKS:				Continued on flext Sheet						LOGGED BY	RE\/IE	WED BY
		-										R. Bruce		Foley
												1 2123		.,

Queensland Government

GEOTECHNICAL BOREHOLE LOG

FINAL 22/12/2017

BOREHOLE No BH1

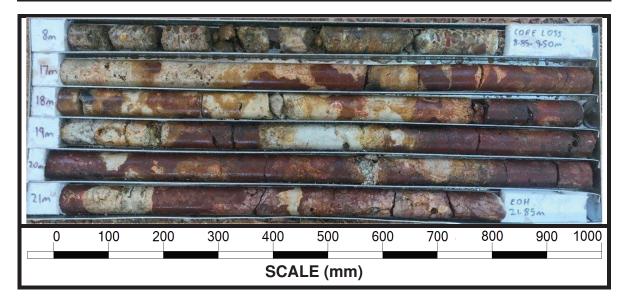
Sheet 3 of 3

COMMINISTRATE COMMINISTRAT			Go	VE	ernment	SY		R GEOTECHNICAL TE S REFER FORM F:GE			REFERENCE No	H:	12973
### PRINCES PRINCE PRINCE	PROJECT	Bear	nes Broo	ok E	Bridge Replacement Project								
22/78/4/14	LOCATION									_	COORDINATES 324440.4	E; 802248	38.6 N
No.	PROJECT No	FG6	513		SURFACE RL 5.02m	PLUNGE 90°		90°	DATE STARTED	07/11/201	17 GRID DATUM MGA94 Z54K		4K
SILSTONE MWY: Cont'd. 10.83 10.0	IOB No	23/7	8A/14		HEIGHT DATUM AHD	BEARING		DATE COMPLETE		TED 08/11/2017 DRILLER S		Saxon Drilling	
MW Cont d	DEPTH (m)	AUGER CASING WASH BORING CORE DRILLING	RQD ()% CORE REC%					INTACT STRENGTH			ADDITIONAL DATA AND TEST RESULTS		SAMPLES TESTS
REMARKS: LOGGED BY REVIEWED BY	- 22 -16.8 - 22 -16.8 - 23 -23 -24 -25 -25 -26 -27 -26 -27 -28				MW: Cont'd.	X X X X X X X X X X X X X X X X X X X	MW	ж	M W		s(t)	i0)=1.01 MPa i0)=1.54 MPa	A (20.36m)— D (20.37m)— ———————————————————————————————————
	-								- - - - -				- - - - -
2000000									_				
R. Bruce S. Foley	REMA	RKS:									LOGGED BY	REVIE	WED BY
											R. Bruce	S.	Foley

CORE PHOTO LOGDEPARTMENT OF TRANSPORT AND MAIN ROADS
GEOTECHNICAL SECTION



Project Name	Beames Brook Bridge Replacement							
Project No.	FG6513	Date	14/11/2017					
Borehole No.	BH1	Reference No.	H12973					
Location	Abutment A, LHS	Start Depth (m)	8.00 and 17.00					
Submitted By	M. de Gee	Finish Depth (m)	9.50 and 21.85					



1