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Queensland

GEOTECHNICAL BOREHOLE LOG

FINAL 22/12/2017

BH6 BOREHOLE No

Sheet 1 of 3

		1%	5	GU	ve	emment	SYI		GEOTECHNICAL TERN REFER FORM F:GEOT			REFERENCE No	H:	12976
ROJECT Beames Brook Bridge Replacement Project														
								COORDINATES 324447.6	E; 802251	14.7 N				
ROJE			SURFACE RL 4.98m	PLU	INGE 9	0°	DATE STARTI	TARTED 13/11/2017 GRID DATUM MGA94		лGA94 Z5	54K			
_					— HEIGHT DATUM AHD					APLETED 14/11/2017 DRILLER Saxon Drilling				
						Ι	_							
DEPTH (m)	R.L. (m)	AUGER	WASH BORING	RQD ()% CORE REC%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH 플루구울그롱리	DEFECT SPACING		ADDITIONAL DATA AND TEST RESULTS		SAMPLES TESTS
						Silty CLAY with Sand (Alluvium) Brown, dry, stiff.	×_		+					=
					A	Medium plasticity; fine to coarse sand.	×	(CI)	<u>+</u> =				7, 6, 4 N=10	SPT
- 1	3.98	1				Silty CLAY with Sand (Alluvium)	×_			-				
						Grey, wet, firm. High plasticity; fine to medium	×_		<u> </u>					
					В	grained sand, rounded.	×		#			Si	u(PP)=45 kPa	U50
- 2									+	-				_
					c		×_	(CH)	王		2.50m: Tree root		5/10mm	- - - - -
							×_	(СП)	+		2.30III. HEE 1000		hb	-
- 3							×_ - - -		+	-				_
							×_		王				1, 2, 2	
					D		×_		<u>+</u>				N=4	SPT
- 4	0.98					Clayey SAND (Alluvium)	×_		++	-				_
						Brown, moist, loose. Fine to medium grained sand,			土				2, 2, 3	
					Е	rounded; trace clay; trace roots.			#				2, 2, 3 N=5	SPT
- 5									+	-				=
									王				6, 9, 12	
					F	From 5.5m: Trace fine to medium gravel, subrounded. Becoming	1		<u></u>				N=21	SPT
- 6						medium dense.		(SC)	+	-				_
								(30)	土				6, 14, 26	=
					G	From 6.5m: Becoming dense.			Ī				N=40	SPT
- 7									+	-				
									土		7.40m-7.50m: Wel		10 24 25	_
					Н						GRAVEL layer. Base observations.	d on drilling	18, 24, 25 N=49	SPT
- 8									+	-				_
	-3.32 -3.57	$\left \cdot \right $	H	(83)		Well Cemented GRAVEL (Alluvium)	000		‡					A (8.36m) –
	3.07		H	83		Grey and brown, fine to coarse gravel clasts in a fine grained	'		Ī			Is(5	0)=0.58 MPa 0)=0.66 MPa 3, 30/110mm	D (8.37m) — SPT
- 9						calcareous cement, medium strength.		(SP)	+	-		7) 20		
						SAND with Clay (Alluvium) Brown, moist, very dense. Sand is		(5.)	‡				20/22	
	-4.72	$\ \ $			J	fine to medium grained. Minor thin, well cemented bands.			Ī			19, 23	3, 30/110mm	SPT
		Ш				Continued on next sheet	×_		+					
REMARKS: LOGGED BY REVIEWED BY														
												R. Bruce	-	Foley
		_												

Queensland Government

GEOTECHNICAL BOREHOLE LOG

FINAL 22/12/2017

ВН6

Sheet 2 of 3

BOREHOLE No

FOR GEOTECHNICAL TERMS AND H12976 REFERENCE No SYMBOLS REFER FORM F:GEOT 017/8-2014 Beames Brook Bridge Replacement Project PROJECT COORDINATES 324447.6 E; 8022514.7 N LOCATION DATE STARTED 13/11/2017 GRID DATUM MGA94 Z54K FG6513 SURFACE RL 4.98m PLUNGE 90° PROJECT No 23/78A/14 HEIGHT DATUM AHD DATE COMPLETED 14/11/2017 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 CORE REC % ᇁᆂᆂᆂᆿᆛᆿᇛᇬᇬᄛᇂᇂᇕ Silty CLAY (Alluvium) Cont'd. Pale grey mottled yellowbrown and red-brown, moist, hard. 12, 16, 22 Medium plasticity; trace fine to SPT coarse grained sand. From 11.0m: Trace iron oxide 12, 20, 24 SPT (CI) 13, 17, 25 SPT 11, 16, 19 N=35 SPT -9.02 Silty CLAY with Sand (Alluvium) Pale grey mottled yellow-brown, moist, hard. 15, 21, 28 N=49 Medium plasticity; fine to coarse SPT grained sand. (CI) 15 15/70mm -10.72 (100) SILTSTONE A (15.88m) MW: Pale grey mottled orange/red D (15.89m)_ brown, fine grained, generally high Is(50)=3.46 MPa Is(50)=3.96 MPa UCS=12.20 MPa (16.35m) Strong iron alteration throughout. -J's: 0°-15° (1/m), Pl-Un/Ro, Tl-OP, FeSt. 17 Is(50)=2.81 MPa D (17.43m) MW М 100 18.73m-19.05m: HW BZ (0) 100 (100) Is(50)=1.53 MPa A (19.33m) 19.40m-19.58m: HW zone 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 BH6

Sheet 3 of 3

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		%		G0)V(ernment	SY			GEOTECHNICAL TE REFER FORM F:GE			REFERENCE No	H:	12976
ROJECT Beames Brook Bridge Replacement Project															
OCATION COORDINATES 324447.6 E; 8022514.7 N										14.7 N					
ROJECT No FG6513 SURFACE RL 4.98m			PLI	plunge 90°		0°	DATE STARTED	13/11/201	7 GRID DATUM N	1GA94 Z5	54K				
OB N	D	2	3/78	8A/14		height datum AHD	BEA	ARII	NG _		DATE COMPLETED	14/11/201	7 DRILLER S	axon Drill	ling
DEPTH (m)	R.L. (m)	AUGER CASING	WASH BORING CORE DRILLING	RQD ()% CORE REC%	₽	MATERIAL DESCRIPTION	ГІТНОГОĞҮ	0001	WEATHERING	INTACT STRENGTH 프,국,국,국,리	DEFECT SPACING		ADDITIONAL DATA AND TEST RESULTS		SAMPLES TESTS
	-15.72			100		SILTSTONE MW: Cont'd.	X > X > X > X > X > X > X > X > X > X >	< n	MW	н					_ _ _ _
- 21						Borehole completed at 20.7	0m	,							_
21										= = =	- - -				- - -
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- 22										=	_				
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- 24										<u>-</u>	<u>-</u> -				<u>-</u>
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- 25											- - -				
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- 27															
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20										= = =	- - -				- - -
- 28										=					=
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- 29										=	- - -				_
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REMARKS: LOGGED BY REVIEWED BY															
													R. Bruce		Foley
															•

CORE PHOTO LOG
DEPARTMENT OF TRANSPORT AND MAIN ROADS
GEOTECHNICAL SECTION





Project Name	Beames Brook Bridge Replacement							
Project No.	FG6513	Date	14/11/2017					
Borehole No.	BH6	Reference No.	H12976					
Location	Pier 2. RHS	Start Depth (m)	8.30 and 15.70					
Submitted By	M. de Gee	Finish Depth (m)	8.60 and 20.70					

