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Queensland Government

GEOTECHNICAL BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND

FINAL 02/03/2018

BOREHOLE No **CRR734**

Sheet 1 of 2

AUDAS AT F			•			SYM	1BOLS	REFER FORM F:GE	OT 017,	/8-2014		REFE	RENCE No	H3	12960
PROJECT	Cros	s River	Rail	CRR2017 - Additional	Geotechnical II	nvesti	igatio	n							
LOCATION	QR I	and (Ma	ayne	e Yard)								COORDINAT	ES 503716.4	E; 696458	88.5 N
PROJECT No	FG6	470		SURFACE RL	4.57m	PLUN	NGE 9	0°		DATE STAF	TED 25/10/201	.7	GRID DATUM N	∕IGA94	
JOB No				HEIGHT DATUM	AHD	BEARI	ING °		DA	TE COMPLE	TED 25/10/201	.7	DRILLER C	Geodrill	
DEPTH (m) Y.T. (B) AUGER	CASING WASH BORING CORE DRILLING	RQD ()%	SAMPLE	MATERIAL DESC	CRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	SP	EFECT PACING		ADDITIONA AND TEST RES			SAMPLES TESTS
3.57		100 (61)		Clayey SAND (Residua Yellow brown mottled medium dense. Fine is grained sand, angular plasticity Clay. TUFF (Rif) MW: Yellow grey and coarse gravel sized clagrained matrix, massingh strengthJs: 10°-25° (5/m), Pl/-Js: 70°-80° (2/m), Pl-FeSt-Vr(Cly) TUFF (Rif) SW: Grey, pale brown gravel size clasts with matrix, massive, high strengthJs: 10°-25° (5/m), Pl/	brown, fine to asts within fine ve, medium to (Ro, OP, FeSt Un/Ro, OP-TI, and fine grained to very high		(SC) MW SW	H-VH	c		0.00m-1.00m: Not Drilling 3.13m-3.20m: HF2	2		hw, 3, 13 N=16 (i) =0.26 MPa (i) =0.32 MPa (i) =0.32 MPa (i) =0.32 MPa (i) =0.430 MPa (i) =0.65 MPa (i) =0.65 MPa (i) =0.65 MPa (i) =0.65 MPa (i) =0.64 MPa (i) =0.84 MPa	D (3.46m) — A (3.48m) — D (5.12m) — A (5.14m) — D (5.56m) — A (6.57m) — D (6.56m) — A (6.57m) — D (8.96m) — A (8.97m) — D (8.90m) — A (8.91m) — D (9.51m) — A (9.52m) — A (9.5
-5.43	Ш	(74)		Continued on ne	ext sheet	.000									
REMARK	(S: Ι	Rif - Br	isb	ane Tuff. Standpip		r ins	talle	ed.				LOG	GED BY		WED BY
								25112151-5-1					SB	S.	Foley

Queensland Government

GEOTECHNICAL BOREHOLE LOG

FINAL 02/03/2018

OLE No CRR734

Sheet 2 of 2

BOREHOLE No

	13	%	P)	Go	VE	ernment	SYN		GEOTECHNICAL TE REFER FORM F:GEO			REFERENCE No	H:	12960
PROJE	.CT	C	ross	River	Rail	CRR2017 - Additional G	Geotechnical Invest	tigatic	on					
OCAT	ION	C	₽ la	and (Ma	ayne	e Yard)						COORDINATES 503716.	4 E; <u>69645</u>	88.5 N
PROJE	ECT No	F	FG64	470		SURFACE RL 4	4.57m PLU	INGE 9	10°	DATE STARTE	 :D_25/10/201	L7 GRID DATUM	MGA94	
OB No	0	_				HEIGHT DATUM A	AHD BEAF	RING °		DATE COMPLETE	25/10/201	L7 DRILLER	Geodrill	
DЕРТН (m)	R.L. (m)	AUGER	WASH BORING CORE DRILLING	RQD ()% CORE REC%	5	MATERIAL DESCR	СІТН	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING		ADDITIONAL DATA AND TEST RESULTS		SAMPLES TESTS
11	-6.53			100		TUFF (Rif) SW: Cont'd. Borehole completed	d at 11.10m	sw	H-VH	c		1	s(50)=3.10 MPa s(50)=0.57 MPa s(50)=4.80 MPa s(50)=5.70 MPa	D (10.86m)
— 12 — 13														
— 14 — 15										- - - - - - - - - - - - - - - - - - -				
— 16														
- 17 -										- - - - - - - - - - - - - - - - - - -				- - - - - - - - - - - - - - - - - - -
- 18														1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
19									- - - - - - - - -					- - - - - - - -
RI	EMAF	── ₹KS:	R		 risb	oane Tuff. Standpipe	e piezometer ins	 stalle	 ≥d.			LOGGED BY	REVIE	EWED BY
												SB		Foley
	-	-	$\overline{}$	$\overline{}$	-									

STANDPIPE INSTALLATION LOG

BOREHOLE No CRR734

FINAL 06/03/2018

Sheet 1 of 2

FOR GEOTECHNICAL TERMS AND **CRR734** PIEZOMETER No SYMBOLS REFER FORM F:GEOT 017/8-2014 Cross River Rail CRR2017 - Additional Geotechnical Investigation PROJECT COORDINATES 503716.4 E; 6964588.5 N QR land (Mayne Yard) LOCATION FG6470 SURFACE RL 4.57m PLUNGE 90° DATE STARTED 25/10/2017 GRID DATUM MGA94 PROJECT No HEIGHT DATUM AHD BEARING ° DATE COMPLETED 25/10/2017 DRILLER Geodrill JOB No Standpipe Construction Details Ξ LITHOLOG R.L. DEPTH (MATERIAL DESCRIPTION (m) Depth (m) /RL 50mm PVC Class No. 18 **Backfill Details** (AHD) Stick Up = 0.00m COBBLES with Gravel and Sandy Clay(Fill) Grout: Cement / Bentonite mix 3.57 1.10m / 3.47 AHD Clayey SAND(Residual) Yellow brown mottled white, moist, medium dense. Fine to coarse grained sand, angular. Medium Bentonite Seal plasticity Clay. 2.47 2.10m / 2.47 AHD TUFF Yellow grey and brown, fine to coarse gravel sized clasts within fine grained matrix, massive, medium to high strength. Js: 10°-25° (5/m), PI/Ro, OP, FeSt Js: 70°-80° (2/m), Pl-Un/Ro, OP-TI, FeSt-Vr(Cly) 1.31 TUFF Grey, pale brown, fine to coarse gravel size clasts within fine grained matrix, massive, high to very high strength. -Js: 10°-25° (5/m), PI/Ro, OP, FeSt 5.10m / -0.53 AHD Top of Slotted Pipe Filter: Washed / Graded Sand Continued on next sheet REMARKS: Rif - Brisbane Tuff. Standpipe piezometer installed. **LOGGED BY REVIEWED BY**

TMR STANDPIPE INSTALLATION LOG - CREATED WITH HOLEBASE SI

SB

S. Foley

Queensland STANDPIPE INSTALLATION LOG

STANDPIPE

FINAL 06/03/2018 **CRR734** BOREHOLE No

	TO Q	lueensland	INS	STALLATIC	N LOG		Sheet :	2 of 2	
	KI G	overnment		FOR GEOTECHNICAL TE OLS REFER FORM F:GE			PIEZOMETER No	CRR734	
PROJECT	Cross Riv	er Rail CRR2017 - Additional Geote	echnical Investiga	ation					
OCATION	QR land ((Mayne Yard)				C	OORDINATES 503716.4	E; 6964588.5 N	
PROJECT No	FG6470	SURFACE RL 4.57n	n PLUNG	6E 90°	DATE STARTED 25	5/10/2017	GRID DATUM N	/IGA94	
OB No		HEIGHT DATUM AHD	BEARIN	G	DATE COMPLETED 25	5/10/2017	DRILLER G	Geodrill	
(E)	ЭСУ				Standpipe (Construc	ction Details		
(m) R.L.	ПТНОГОБУ	MATERIAL DESCRIPTION		Depth (m) /RL (AHD)	50mm PVC Class No Stick Up = 0.00n		Backfill D	ckfill Details	
- 11 -6.53	TUFF Cont'd.	Borehole completed at 11.10m	11	.10m / -6.53 AHD					
- 12									
-									
- 13									
- 14									
- 15									
- 16									
- 17									
- 18									
-									
- 19									
REMAR	KKS: Rif - E	Brisbane Tuff. Standpipe piezomete	er installed.				LOGGED BY	REVIEWED BY	
			TAAD CTAMIODIOS	INSTALLATION LOG - CREATED V	VITH HOLFRASE SI		SB	S. Foley	

CORE PHOTO LOG DEPARTMENT OF TRANSPORT AND MAIN ROADS GEOTECHNICAL SECTION



Project Name	Cross River Rail CRR2	Cross River Rail CRR2017 – Geotechnical Investigation							
Project No.	FG6470	Date	25/10/2017						
Borehole No.	CRR734	Reference No.	H12960						
Location	QR land (Mayne Yard)	Start Depth (m)	2.10						
Submitted By	M. de Gee	Finish Depth (m)	11.10						

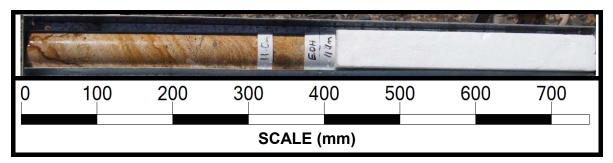


1

CORE PHOTO LOG
DEPARTMENT OF TRANSPORT AND MAIN ROADS
GEOTECHNICAL SECTION



Project Name	Cross River Rail CRR2	017 – Geotechnical Inv	estigation
Project No.	FG6470	Date	25/10/2017
Borehole No.	CRR734	Reference No.	H12960
Location	QR land (Mayne Yard)	Start Depth (m)	2.10
Submitted By	M. de Gee	Finish Depth (m)	11.10



Detailed Discontinuity Description Log



This form is intended for the detailed description of discontinuities and defects as measured in outcrop by line mapping, or as they occur downhole in drilled rock core. The descriptions and abbreviations used shall be in accordance with Australian Standard AS1726-1993 Geotechnical site investigations and TMR Geotechnical Terms and Symbols Form F:GEOT017/8.

Project Name		Cross Rive	r Rail			Project No. FG6470				
Site ID / Bo	rehole No.	CRR734			Surface RL 4.57					
Geologist		S.B.			Date 25/10/2017					
						Page	1	of	2	
Traverse	Туре	Dip ° / Dip	Planarity	Roughness	Roughness	Aperture	Infilling	Zones ¹	Other	
Chainage;		Direction °;			Class					
or	LP/	or				CD/	Cn /	SZ /		
Down hole	BP/	Angle ° from	Stp /	Ro /	I to IX	OP /	St /	CZ /		
depth	FP/	horizontal	Un /	Sm /		FL/	Vr /	HFZ /		
(rock core)	J etc.	(rock core)	PI	SI		TI	Ct 1	AZ		
2.31	J	0	Un	Ro	IV	OP	Cn			
2.37	J	0	Un	Ro	IV	OP	Cn			
2.37-2.42	J	90	Stp	Ro	I	OP	Cn			
2.42	J	0	Un	Ro	IV	OP	Cn			
2.52	J	0	Un	Ro	IV	OP	Cn			
2.72	J	20	Un	Ro	IV	OP	Cn			
2.83	J	20	Un	Ro	IV	OP	Cn			
3.01	J	0	Un	Ro	IV	OP	Cn			
3.04-3.24	J/FP	70	Un	Ro	IV	OP	St			
3.31	Grinding frac	ture								
3.83	J	30	Un	Ro	IV	OP	Cn			
3.77	J	30	Un	Ro	IV	OP	Cn			
			Un	Ro	IV	OP	Cn			
4.22-4.42	FP	60	PI	Ro	VII	OP	St			
4.42-4.45	J	0	Un	Ro	IV	OP	Ct	CZ		
4.65	J	0	Stp	Ro	1	OP	Cn			
4.73	FP	45	Un	Ro	IV	OP	Cn		Int	
4.75	J	0	Un	Ro	IV	OP	Cn		Int	
5.55-5.72	FP	60	Un/Pl	Ro	IV-VII	CD	St			
5.74	J	30	Stp	Ro	I	OP	Cn			
5.91	J	15	PI	Ro	VII	OP	St			
5.82-6.07	J	70	Pl	Ro	VII	TI	Cn			
6.02	J	30	Un	Ro	IV	OP	Cn			
6.51	J	15	Pl	Ro	VII	OP	Cn			
6.68	J	15	PI	Ro	VII	OP	Cn			
7.03	J	0	Un	Ro	IV	OP	Cn			
7.28	J	20	Un	Ro	IV	OP	Cn			
7.49	DI	15	Un	Ro	IV	OP	Cn			
7.53	DI	15	Un	Ro	IV	OP	Cn			
7.39-7.59	J	60	Un	Ro	IV	OP	St			
7.84	J	10	Un	Ro	IV	OP	St			

Note: 1. Describe zones and coatings in terms of composition and thickness (mm)

F:GEOT 533/9 - 2014

Detailed Discontinuity Description Log



This form is intended for the detailed description of discontinuities and defects as measured in outcrop by line mapping, or as they occur downhole in drilled rock core. The descriptions and abbreviations used shall be in accordance with Australian Standard AS1726-1993 Geotechnical site investigations and TMR Geotechnical Terms and Symbols Form F:GEOT017/8.

Ocotecinine	ar remis a	ilia Syllibois	1 011111 1 . 0 L	0101770.						
Project Nan	ne	Cross River	r Rail			Project No. FG6470				
Site ID / Bo	rehole No.	CRR734				Surface RL 4.57				
Geologist		S.B.				Date	Date 25/10/2017			
		•				Page	2	of	2	
Traverse	Туре	Dip ° / Dip	Planarity	Roughness	Roughness	Aperture	Infilling	Zones ¹	Other	
Chainage;		Direction °;			Class					
or	LP /	or				CD/	Cn /	SZ /		
Down hole	BP /	Angle ° from	Stp /	Ro /	I to IX	OP /	St /	CZ /		
depth	FP/	horizontal	Un /	Sm /		FL/	Vr /	HFZ /		
(rock core)	J etc.	(rock core)	PI	SI		TI	Ct 1	AZ		
8.33	J	0	Un	Ro	IV	TI	St			
8.37	J	20	Un	Ro	IV	OP	St			
8.42-8.55	J	70	PI	Ro	VII	OP	St			
8.62	J	0	Un	Ro	IV	OP/CD	St			
8.87	J	5	Un	Ro	IV	OP	St			
9.31	J	30	Un	Ro	IV	OP	Cn			
9.62-9.64	J	0	Un	Ro	IV	OP	St			
9.96-10.14	J	60	PI	Ro	VII	OP/CD	Cn			
10.12	J	5	Un	Ro	IV	OP	Cn			
10.19	J	30	Un	Ro	IV	OP	St			
10.22	J	15	Un	Ro	IV	OP	St			
10.27	J	30	Stp	Ro	I	OP	St			
10.68	J	0	Un	Ro	IV	OP	Cn			

Note: 1. Describe zones and coatings in terms of composition and thickness (mm) $F:GEOT\ 533/9-2014$