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Queensland Government

GEOTECHNICAL BOREHOLE LOG

FINAL 11/12/2018

BOREHOLE No CRR906

Sheet 1 of 3

	13	R.	Z.	Go	V	ernment		SYM		GEOTECHNICAL TE REFER FORM F:GE			REFERENCE No	н	13114	
PROJE	СТ		Cross	River	Rail	(CRR) Project - Additional Geot	echnica	l Inv	/esti	gation						
LOCAT	TATION Clapham Yard COORDINATES 501337.7 E; 6954.												.7 E; 69542	16.9 N		
PROJE	ROJECT No FG6470 SURFACE RL 9.73m							PLUN	ige 9	0°	DATE STAR	— _{ТЕD} 16/07/201	.8 GRID DATUN	GRID DATUM MGA94		
IOB No)					height datum AHD	в	EARI	ING °		DATE COMPLE	TED 19/07/201	.8 DRILLEI	Geodrill		
DEPTH (m)	R.L. (m)	AUGER CASING	WASH BORING SORE DRILLING	RQD ()%	SAMPLE	MATERIAL DESCRIPTION		LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING		ADDITIONAL DATA AND TEST RESULTS		SAMPLES TESTS	
	9.33					Sandy GRAVEL with Cobbles (F Grey, moist, loose. Gravel is mo to coarse, sub-rounded to sub-	edium		(GP)	- - -	- - - -				DIST	
-	8.93	-	Ш		В	angular. Fine to coarse grained trace fines.	/DK	<u></u>	(SC)					9, 5, 4 N=9		
- 1 -					D	Clayey SAND (Fill) Grey, moist, loose. Medium to coarse grained. Trace fine to medium gravel.	2	 - - -	(CH)	- - - -	- - - - -			6, 12, 16 N=28	DIST	
- 2	7.53					Silty CLAY (Alluvium) Brown, grey mottled pale grey red-brown, moist, firm to very	stiff.	K		- - - - -	_ _ _ _			14-20	SPT	
- - -					G	High plasticity. Trace fine grain sand. Silty Sandy CLAY (Alluvium) Grey, grey-brown and minor o		X - X - X		- - - - -	- - - - -			5, 9, 13 N=22 LL=56% PI= 36% C=23.7% LS= 9%	SPT	
- 3						brown, moist, very stiff. High plasticity. Fine to medium grai sand.	É				- - - - -		M	<75μm= 56%	-	
- - 4					Н		2 2 2 2 2 2			- - - -				4, 8, 12 N=20		
- - - - - - - 5					1		 			- - - - -				6, 8, 12 N=20		
-					J	from 5.20m: trace of thin mediu dense to dense Sand layers				= = = = = = =	- - - - -			7, 12, 12 N=24	SPT	
— 6							[] []		(CH)							
— 7					K		-							10, 20, 18 N=38 LL=55% PI= 33% =23.5% LS= 10% <75μm= 52%		
8					L	at 8.50m: 350mm thick loose to medium dense Silty SAND layer	: : :o				- - - - - - - -			3, 3, 4 N=7	SPT	
— 9						from 9.5m: orange-brown and g	grey			- - - - - - - - - - - - - - - - - - -					-	
Continued on next sheet											-					
RE	EMAF	RKS:	: F	 lip - A	.spl	ey Formation							LOGGED BY	REVII	EWED BY	
													MH		Foley	

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GEOTECHNICAL BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND

FINAL 11/12/2018

BOREHOLE No **CRR906**

Sheet 2 of 3

1	~ (C-	à			2111111CITE		SYI	MBOLS	REFER FOR	M F:GEO	T 017/8-2014		REFEREN	NCE No	н:	13114		
PROJECT Cross River Rail (CRR) Project - Additional Geote						nal Geotechnic	cal Ir	nvesti	gation									
LOCATION	С	aph	am Yaı	rd									COORDINATES 501337.7 E; 6954216.9 N					
PROJECT No	ECT No FG6470 SURFACE RL 9.73m				9.73m	PLUNGE 90° DATE STARTED 16/07/2018 GRID DATUM MGA94						/IGA94						
OB No	_				HEIGHT DATUM	AHD	BEAF	RING _		-	DATE COMPLE	TED 19/07/201	.8	DRILLER G	ieodrill			
(m) R.L. (m)	AUGER	WASH BORING CORE DRILLING	RQD ()% CORE REC%	SAMPLE	MATERIAL DESC	RIPTION	LITHOLOGY	USCS WEATHERING	INTAC STRENC	GTH	DEFECT SPACING		ADDITIONAL D AND TEST RESUL			SAMPLES TESTS		
- 11 - 12 - 2.27 - 13 - 2.77 - 13 - 3.77 - 15 - 5.77 - 16 - 6.37 - 17 - 18 - 19 - 19 - 19 - 19 - 19 - 19 - 19	7	03	100 (99)	N	Silty Sandy CLAY (Alluvi Cont'd. Orange-brown to very stiff. Becoming plasticity; trace fine to gravel. from 10.30m: trace fir grained gravel. Silty SAND (Alluvium) Orange-brown, wet, n to dense. Fine to mediur rounded to sub-angulto coarse grained sand Some quartz and cher sandy GRAVEL (Alluving Grey and orange-brown, dense. Fine to mediur rounded to sub-angulto coarse grained sand Some quartz and cher sand sand sand sand sand sand sand sand	n, moist, stiff g medium on medium dense lium grained. um) vn, wet, very m, sub- ar gravel. Fine d. Trace fines. rt. ayey Gravelly wet, very arse grained. ine, sub- avel. nedium dense lium grained. which is a sub- avel wet, very arse grained. ine, sub- avel. medium d, very low minated coal erial. medium ne to medium		(CI) (SM) HW		LM LM	W W			IS(5)	44% PI= 25% 7.7.2% LS= 9% 7.7.	D (16.03m) A (16.04m) (16.62m) D (16.78m) A (16.79m) D (17.75m) A (17.76m) D (18.32m) A (18.33m)		
-10.2	7	Ш			Continued on ne	xt sheet	1::											
REMA	RKS:	Ri	p - A	 sple	ey Formation								LOGGI			EWED BY Foley		
							· FOTE:	UNION S	0051101510		ELLIQUEDACS **		171		J.	. э.су		

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GEOTECHNICAL BOREHOLE LOG

FINAL 11/12/2018

BOREHOLE No **CRR906**

Sheet 3 of 3

	(%)	1%		GO	Vŧ	ernment		SYN		GEOTECHNICAL TE REFER FORM F:GE			REFERENCE No	H:	13114
PROJE	ECT	(Cros	s River	Rail	(CRR) Project - Addition	al Geotechnica	l In	ıvesti	gation					
LOCA	TION	(Clap	ham Ya	rd							_	COORDINATES 501337.7	E; 69542	16.9 N
PROJECT No FG6470 SURFACE RL 9.73m						SURFACE RL 9.	73m	PLU	nge 9	0°	DATE START	ED 16/07/2018	8 GRID DATUM I	MGA94	
JOB No						HEIGHT DATUM A	HD E	BEAF	RING °		DATE COMPLET	ED 19/07/2018	8 DRILLER	Geodrill	
DEPTH (m)	R.L. (m)	AUGER	WASH BORING CORE DRILLING	RQD ()%	SAMPLE	MATERIAL DESCRI	PTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING		ADDITIONAL DATA AND TEST RESULTS		SAMPLES TESTS
-						SANDSTONE (Rip) MW: Cont'd			MW		w		116	CS=19.20 MPa	(20.40m)
-	-10.94	-		100		Borehole completed a	ut 20.67m	: :		-	_		Is(E=2.09 GPa v= 0.092 50)=0.59 MPa	D (20.57m)- A (20.59m)
- 21 -													Is(50)=0.39 MPa	-
-										=					-
-										=					-
- - — 22															_
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- — 28 -															
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— 29 - -										-					_
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-										=					-
-					L					_	<u> </u>				-
R	EMAR	KS:	: F	Rip - A	spl	ey Formation							LOGGED BY	REVIE	WED BY
					•								MH		Foley
													IVIII	ی.	i oicy

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 Nar		Cross Rive				Project No FG6470					
Site ID / Bo						Surface RL 9.73					
Geologist		Mark Hayes	<u> </u>			Date					
						Page	1	of	1		
Traverse	Туре	Dip ° / Dip	Planarity	Roughness	Roughness		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			
15.65	BP	5°	PI	Sm	VIII	OP	Vr Cly / Cn				
17.90	BP	5°	PI	Ro	IV	OP	Cn				
18.73	BP	10°	PI	Sm	VIII	OP	Ct				
19.22	BP	5°	Pl	Sm	VIII	CD	Cn				
19.55	BP	4.5°	PI	Sm	VIII	OP	Ct				
19.58	BP	5°	PI	Sm	VIII	CD	Ct				
19.86	BP	30°	PI	Sm	VIII	CD	Ct				
1											

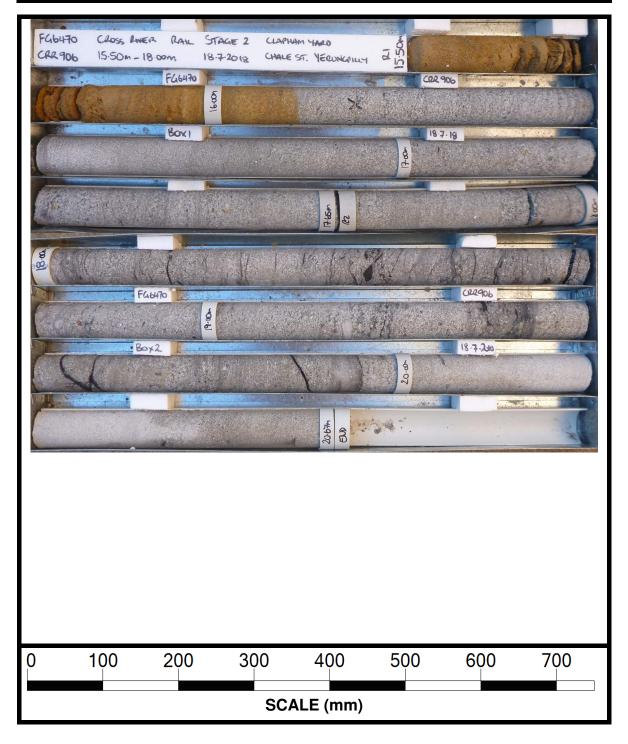
Note: 1. Describe zones and coatings in terms of composition and thickness (mm)

F:GEOT 533/9 - 2014

CORE PHOTO LOG DEPARTMENT OF TRANSPORT AND MAIN ROADS GEOTECHNICAL SECTION



Project Name	Cross River Rail CRR 2018 – Geotechnical Investigation								
Project No.	FG6470	Date	18.07.18						
Borehole No.	CRR906	Reference No.	H13114						
Location	Clapham Yard	Start Depth (m)	15.50						
Submitted By	J. Armstrong	Finish Depth (m)	20.67						



1