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GEOTECHNICAL BOREHOLE LOG BOREHOLE No CRRS Sheet 1 of 2 Cross River Rail (CRR) Project - Additional Geotechnical Investigation FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014 REFERENCE No H13C	930										
FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014 REFERENCE NO H130											
FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014 REFERENCE NO H130											
PROJECT Cross River Rail (CRR) Project - Additional Geotechnical Investigation)52										
LOCATION Bowen St, Windsor COORDINATES 503828.1 E; 6965462.	6 N										
PROJECT No FG6470 SURFACE RL 1.76m PLUNGE 90° DATE STARTED 29/05/2018 GRID DATUM MGA94											
JOB NO HEIGHT DATUM AHD BEARING DATE COMPLETED 31/05/2018 DRILLER Geodrill											
Image: Constraint of the second se	SAMPLES TESTS										
- 1.59 Asphalt 0.00m-2.10m: NDD to 2.1m											
1.39 Clayey GRAVEL (Fill) (GC) Dark grey, moist, dense, medium to coarse, angular to sub-angular. High plasticity clay. Trace boulders and											
1 A dobbles. MC=43.5% Silty CLAY (Alluvium) Comparison DD=1.23 t/m3 Grey mottled pale brown, trace dark Comparison WD=1.77 t/m3 grey mottling, moist, very soft to Comparison Comparison soft, high plasticity. Comparison Comparison	U50										
2 B B C C C C C C C C C C C C C C C C C	U50										
	-										
-4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 <	SPT .										
D at 5.2m: becoming stiff, medium plasticity.	U50										
-6 - - - 3, 5, 7 - - - - N=12 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	SPT										
7 at 7.0m: Very stiff. 8 -6.24 8 -6.24 CLAY trace Sand (Residual) Grey trace pale brown mottling, moist, stiff, high plasticity. Trace of fine to coarse grained sand.	SPT										
CLAY trace Sand (Residual) Grey trace pale brown mottling, moist, stiff, high plasticity. Trace of fine to coarse grained sand. (CH) (CH)	SPT										
-8.04 -8.24 (93) TUFF (Rif)											
REMARKS: Rif - Brisbane Tuff LOGGED BY REVIEW											
TMR GEOTECHNICAL BOREHOLE LOG - CREATED WITH HOLEBASE SI	леу										

												FINAL 2	7/09/2018
***						GE	OTEC	ΉN	ICAL		BOREHOLE No	CF	R930
NA NA		Que	ensland			BO	REHO	DLE	LOG		SI	neet 2 of 2	
B		Gov	ernment		SYI		GEOTECHNI REFER FORI		MS AND 0T 017/8-2014		REFERENCE No	H	13052
PROJECT	Cross	River Rai	l (CRR) Project - Additio	 onal Geotechni	cal Ir	nvesti	gation						
LOCATION		en St, Win									coordinates 50382	8.1 E; 69654	62.6 N
PROJECT No FG6470 SURFACE RL 1.76m PLUNGE 90° DATE STARTED 29/05/2018 GRID DATUM MGA94													
JOB NO HEIGHT DATUM AHD BEARING ° DATE COMPLETED 31/05/2018 DRILLER Geodrill													
		RQD				0					ADDITIONAL DATA		
(m) R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	()% THE CORE REC %	MATERIAL DES(CRIPTION	ГІТНОГОGY	USCS WEATHERING		STH			ADDITIONAL DATA AND TEST RESULTS		SAMPLES TESTS
11 11 11 12 13 13 14 14 14 14 14 14 14 14 14 14		100 (54) 100 (56) 100	TUFF (Rif) MW: Cont'd Pale orange and grey matrix with fine to m sized clasts, massive, Js 50°-90° (3-4/m) Un FL, FeSt, Q2 Vr, Cly Ct Is 5°-25° (3-4/m) Un feSt, some Cly Vr at 11.30m: becoming mottled pale orange	edium gravel high strength. I/Sm, OP-CD- Sm, OP, Cn- pale grey brown.	가지 않는 것은 것을 알았는 것을 알았다. 같이 있는 것을 알았는 것을 알았다. 것을 알았는 것을 알았는 것을 알았는 것을 알았는 것을 알았다. 가지는 것을 알았는 것을 알았는 것을 알았는 것을 알았다. 것을 알았는 것을 알았는 것을 알았는 것을 알았다. 것을 알았는 것	MW HW SW		H E C C		= 12.00m-12.04m: E = 12.53m-12.55m: X 14.72m-15.41m: J Vn	(W Band, Cly	UCS=42.80 MPa E=8.4 GPa Is(50)=2.10 MPa Is(50)=2.40 MPa Is(50)=2.70 MPa UCS=50.70 MPa Is(50)=2.70 MPa Is(50)=2.70 MPa Is(50)=2.60 MPa Is(50)=2.60 MPa	A (11.21m) D (12.15m) A (12.16m) (13.03m) D (13.30m) A (13.31m)
19 19 													-
											1		
REMA	RKS: R	if - Brisk	oane Tuff								LOGGED BY		EWED BY
					CEOT:	UNICO -	DREHOLE LOG - C	DEATCO	THUDISPACE		ND	S.	Foley

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 Nan		Cross Rive	r Rail - Stag	ge 2		Project No. FG6470				
Site ID / Bor	rehole No.	CRR930				Surface RL 1.76				
Geologist		Nick Dewar	•			Date 30/05/2018			•	
						Page	1	of	:	
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		
9.83	J	5	Un	Sm	V	OP	Cn			
9.97	J	20	Un	Sm	V	OP	St		Carb/Fe	
10.27	J	0	Un	Sm	V	OP	Cn			
10.29	J	90	Un			CD/FL	Ct	Qz, J: 10.	29-10.65m	
10.52	J	5	Un	Sm	V	OP	St		Carb/Fe	
10.67	J	60	Un			CD/FL	Ct	Qz, J: 10.	67-10.74m	
10.78	J	10	Un	Sm	V	OP	Cn			
11.53	J	40	Un	Sm	V	OP	St		Carb/Fe	
11.63	J	5	Un	Ro	IV	OP	Vr		Carb	
11.88	J	0	Un	Sm	V	OP	St		Fe	
12.02	J	15	Un	Sm	V	OP	Ct		Carb	
12.21	J	80	Un	Sm	V	OP	Vr	Carb/Fe, J:	12.21-12.53r	
12.31	J	10	Un	Sm	V	OP	Cn			
12.34	J	0	Un	Sm	V	OP	Cn			
12.46	J	0	Un	Sm	V	OP	St		Carb/Fe	
12.54	J	20	Un	Sm	V	OP	Ct		Cly(5mm)	
12.55	J	80	Un			TI/CD			Fe	
12.60	J	10	Un	Sm	V	OP	Cn			
12.63	J	75	Un			CD/FL	Vr	Carb, J: 12	2.63-12.86m	
12.71	J	80	Un	Sm	V	OP	St	Fe, J: 12.	71-12.86m	
12.74	J	5	Un	Sm	V	OP	St/Vr		Fe/Carb	
13.27	J	20	Un	Sm	V	OP	Cn			
13.38	J	5	Un	Sm	V	OP	St		Fe	
13.61	J	10	Un	Sm	V	OP	Cn			
13.71	J	20	Un	Sm	V	OP	Cn			
13.80	J	40	Un	Sm	V	OP	St		Fe	
13.86	J	70	Stp	Sm	II	OP	St	Fe, J: 13.	86-13.93m	
13.89	J	5	Un	Sm	V	OP	Cn			
13.92	J	80	Un			CD/FL	St	Fe, J: 13	.92-14.3m	
14.35	J	85	Un			CD	St	Fe, J: 14.	35-14.48m	
14.50	J	0	PI	Sm	VIII	OP	Cn	1		

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.

Project Nan	ne	Cross Rive	r Rail - Stag	je 2		Project No FG6470				
Site ID / Bo	rehole No.	CRR930				Surface RL 1.76				
Geologist		Nick Dewar				Date 30/05/2018				
						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		ті	Ct ¹	AZ		
14.58	J	60	Un	Ro	IV	OP	St		Fe	
14.72	J	80	Un			CD/FL	Fe/Qz(10	0mm), J: 14.72	2-15.41m	
14.73	J	50	Un	Sm	V	OP	St		Fe	
15.03	J	0	Un	Sm	V	OP	St		Fe	
15.29	J	0	Un	Sm	V	OP	Cn			
15.52	J	10	Un	Sm	V	OP	Cn			
15.56	J	80	Un	Sm	V	OP	Cn	J: 15.56	-15.63m	
15.63	J	5	Un	Sm	V	OP	St		Fe	
15.65	J	30-80	Stp	Sm	II-V	CD	St	Fe, J: 15.	65-15.8m	

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

F:GEOT 533/9 - 2014

GEOT043/3

CORE PHOTO LOG DEPARTMENT OF TRANSPORT AND MAIN ROADS GEOTECHNICAL SECTION



Project Name	Cross River Rail CRR 2018 – Geotechnical Investigation									
Project No.	FG6470	Date	30-31/5/18							
Borehole No.	CRR930	Reference No.	H13051							
Location	Bowen St,Windsor	Start Depth (m)	9.80							
Submitted By	J. Armstrong	Finish Depth (m)	15.80							

