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REPORT OF BOREHOLE: CRR 214

COORDS: 501624.12 m E 6956103.75 m N MGA94 56

SHEET: 1 OF 5 DRILL RIG: FOX B40

PROJECT: Cross River Rail

CLIENT:

GAP 8_03 LIB.GLB Log_GAP NON-CORED FULL PAGE_107632034_ACQ.GPJ <<DrawingFile>> 29/11/2010 13:40_8.2.007

SURFACE RL: 14.77 m DATUM: AHD

CONTRACTOR: Schneider Drilling Pty Ltd LOGGED: RCD DATE: 30/8/10

RL3

LOCATION: Christensen St Park and Ride INCLINATION: -90° JOB NO: 107632034

Aecom Australia Pty Ltd

HOLE DEPTH: 30.10 m

CHECKED: NK DATE: 18/10/10 Drilling Sampling **Field Material Description** MOISTURE CONDITION CONSISTENCY DENSITY USC SYMBOL RECOVERED STRUCTURE AND SAMPLE OR GRAPHIC LOG SOIL/ROCK MATERIAL DESCRIPTION ADDITIONAL OBSERVATIONS WATER DEPTH (metres) FIELD TEST DEPTH RL 14.74 CONCRETE (Bricks) pale grey D MD Sandy Gravelly CLAY (Road base) grey Sandy Gravelly CLAY medium plasticity, dark grey, fine gravel, coarse sand М VSt U45 1.00-1.45 m PP = 350 kPa AS 1.50 13.27 Clayey SAND medium grained, red brown and pale grey, residual soil D VD SPT 2.50-2.60 m 30/100mm HB For Continuation Refer to Sheet 2 3 5 8 9 10 This report of borehole must be read in conjunction with accompanying notes and abbreviations. It has been prepared for geotechnical purposes only, without attempt to assess possible contamination. Any references to potential contamination are for GAP gINT FN. F01a information only and do not necessarily indicate the presence or absence of soil or groundwater contamination.



REPORT OF BOREHOLE: CRR 214

COORDS: 501624.12 m E 6956103.75 m N MGA94 56

SHEET: 2 OF 5 DRILL RIG: FOX B40

PROJECT: Cross River Rail

SURFACE RL: 14.77 m DATUM: AHD

CONTRACTOR: Schneider Drilling Pty Ltd

LOCATION: Christensen St Park and Ride JOB NO: 107632034

INCLINATION: -90° HOLE DEPTH: 30.10 m LOGGED: RCD DATE: 30/8/10 DATE: 18/10/10 CHECKED: NK

Drilling		Field Material Description				Defect Information																	
METHOD	WATER	TCR	RQD (SCR)	DEPTH (metres)	<i>DEPTH</i> RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION		INFERRED STRENGTH Is ₍₅₀₎ MPa		ГН Э	& Additional Observations		FRACTURE FREQUENCY (Defects per unit metre length)									
				0 —	2.60 12.17		Continuation of Sheet 1 SANDSTONE medium to coarse grained, orange brown and pale grey, occasional band of conglomerate	EW -					3.02: IS, 7°, Un, Ro, Ct, 5 mm, Clay & rock fragments										
		100	55	5—	4.50 10.27 5.60 9.17		fine grained band of conglomerate	sw					4.70: IS, 75°, St, Ro, Ct, 4 mm, Clay 4.90: J, 50°, Un, Ro, Ct, 2 mm, Clay 5.60: CS, 13°, Un, Ro, Ct, 22 mm, Clay & rock fragments 5.77: J, 3°, Un, Ro, Sn, limonite										
NIMICO		100	60	6 — - - - 7 —	6.63 8.14		band of conglomerate containing sitstone crushed by drilling 115 mm						6.37: B, 10°, Un, Ro, Ct, 9 mm, clay & Siltstone										
		100	35	- - 8— -	7.55 7.49 7.28 8.00 6.77 8.30 6.47	7.49 7.28 8.00 6.77 8.30	7.49 7.28 8.00 6.77 8.30	7.49 7.28 8.00 6.77 8.30	7.49 7.28 8.00 6.77 8.30	7.49 7.28 8.00 6.77 8.30	7.49 7.28 8.00 6.77 8.30	* * * * * * * * * * * * * * * * * * *	SILTSTONE fine grained, dark grey SANDSTONE fine to medium grained, pale grey and pale orange brown band of conglomerate, becoming coarse sandstone CORE LOSS		-				7.76-776.00: IS, 80°, PI, Ro, Ct, 7 mm, clay				
		85	25	- 9— - - -	8.75 6.02		SANDSTONE coarse grained, pale orange brown and pale grey	SW					8.98: DS, 2°, Un, Ro, Ct, 30 mm, clay & rook fragments 9.07: DS, 30°, Un, Ro, Ct, 30 mm, clay & rock fragments 9.78: DS, 9°, Pl-Un, Ro, Ct, 7 mm										



CLIENT:

REPORT OF BOREHOLE: CRR 214

SHEET: 3 OF 5

COORDS: 501624.12 m E 6956103.75 m N MGA94 56

INCLINATION: -90°

956103.75 m N MGA94 56 DRILL RIG: FOX B40

PROJECT: Cross River Rail

LOCATION: Christensen St Park and Ride

Aecom Australia Pty Ltd

SURFACE RL: 14.77 m DATUM: AHD CONTRACTOR: Schneider Drilling Pty Ltd

LOGGED: RCD DATE: 30/8/10 CHECKED: NK DATE: 18/10/10

JOB NO: 107632034 HOLE DEPTH: 30.10 m Drilling Field Material Description Defect Information FRACTURE FREQUENCY (Defects per unit metre length) INFERRED WEATHERING GRAPHIC LOG STRENGTH RQD (SCR) DEFECT DESCRIPTION ROCK / SOIL MATERIAL DESCRIPTION Is₍₅₀₎ MPa WATER DEPTH (metres) & Additional Observations L VE 0.03 TCR DEPTH RL 8 28 28 29 10 SANDSTONE SW coarse grained, pale orange brown and pale grey 10.26: DS, 10°, Un, Ro, Ct, 45 mm, clay & rock fragments SILTSTONE fine grained, dark grey 10.60 4.17 10.56: DS, 3°, Pl-Un, Ro, Ct, 30 mm, clay & rock 85 25 band fine grand sandstone 113 mm fragments 10.74: DS, 3°, PI-Un, Sm, Ct, 70 mm, clay & rock 11 100 90 DECOMPOSED ZONE fine grained, pale grey, weathered to silty clay low to medium plasticity 2.27 EW 12.53: DS, 4°, Un, Sm, Ct, 54 mm, Clay & rock fragments 1.82 fine grained, dark grey FR 14 **14.38** 0.39 14.37: C, 3°, Pl-Un, Sm, Cn CONGLOMERATE fine to medium grained, pale grey 15 100 80 15.96 GAP 8_03 LIB.GLB Log GAP CORED BOREHOLE 107632034_ACQ.GPJ <<DrawingFile>> 29/11/2010 13:59_8.2.007 16 -1.19SANDSTONE fine to medium grained, pale grey 17.50 -2.73 occasional conglomerate band 18 100 95 19 19.45 -4.68 19.45: C, 10°, Un, Sm, Cn SILTSTONE fine grained, dark grey, bedding @ 10° 100 80 19.80: CZ, 6°, Un, Sm-Ro, Ct, 100 mm, clay & rock This report of borehole must be read in conjunction with accompanying notes and abbreviations. It has been prepared for geotechnical purposes only, without attempt to assess possible contamination. Any references to potential contamination are for GAP gINT FN. F02b information only and do not necessarily indicate the presence or absence of soil or groundwater contamination. RL:



Aecom Australia Pty Ltd

Cross River Rail

CLIENT:

PROJECT:

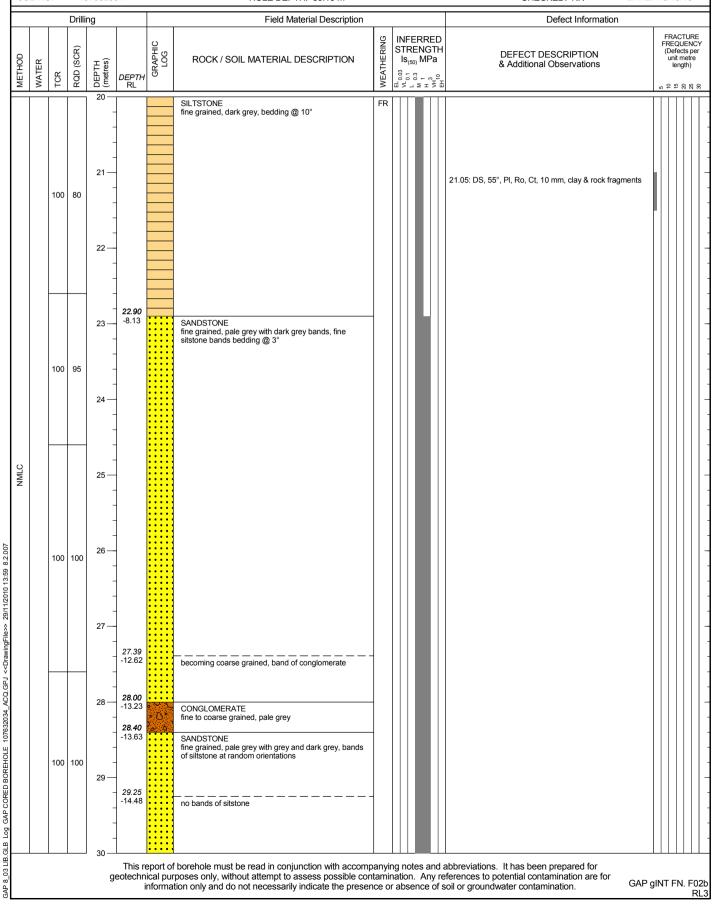
REPORT OF BOREHOLE: CRR 214

COORDS: 501624.12 m E 6956103.75 m N MGA94 56

SURFACE RL: 14.77 m DATUM: AHD CONTRACTOR: Schneider Drilling Pty Ltd

LOCATION: Christensen St Park and Ride INCLINATION: -90° JOB NO: 107632034 HOLE DEPTH: 30.10 m SHEET: 4 OF 5 DRILL RIG: FOX B40

LOGGED: RCD DATE: 30/8/10 CHECKED: NK DATE: 18/10/10





Aecom Australia Pty Ltd

Cross River Rail

107632034

CLIENT:

JOB NO:

PROJECT:

LOCATION:

REPORT OF BOREHOLE: CRR 214

SHEET: 5 OF 5

CHECKED: NK

DATE: 18/10/10

COORDS: 501624.12 m E 6956103.75 m N MGA94 56

HOLE DEPTH: 30.10 m

DRILL RIG: FOX B40 SURFACE RL: 14.77 m DATUM: AHD CONTRACTOR: Schneider Drilling Pty Ltd Christensen St Park and Ride INCLINATION: -90° LOGGED: RCD DATE: 30/8/10

Drilling Field Material Description **Defect Information** FRACTURE FREQUENCY (Defects per unit metre length) INFERRED WEATHERING GRAPHIC LOG STRENGTH RQD (SCR) DEFECT DESCRIPTION ROCK / SOIL MATERIAL DESCRIPTION Is₍₅₀₎ MPa WATER DEPTH (metres) & Additional Observations TCR *DEPTH* RL 30 30.10 -15.33 END OF BOREHOLE @ 30.10 m 31 33 34 35 GAP 8_03 LIB.GLB Log GAP CORED BOREHOLE 107632034_ACQ.GPJ <<DrawingFile>> 29/11/2010 13:59 8.2.007 36 37 38 39 This report of borehole must be read in conjunction with accompanying notes and abbreviations. It has been prepared for geotechnical purposes only, without attempt to assess possible contamination. Any references to potential contamination are for GAP gINT FN. F02b information only and do not necessarily indicate the presence or absence of soil or groundwater contamination. RL3



CLIENT: Aecom Australia Pty Ltd

PROJECT: Cross River Rail

LOCATION: Christensen St

JOB NO: 107632034

REPORT OF CORE PHOTOGRAPHS: CRR 214

COORDS: 0501624 m E 6956103 m N SURFACE RL: 14.77 DATUM: AHD

INCLINATION: -90° HOLE DEPTH: 30.1~m

DEPTH RANGE: 2.6-18.0 m DRILL RIG: Fox B40

DRILLER: Schneider Drilling Pty Ltd
LOGGED: RCD DATE: 30/08/10
CHECKED: NK DATE: 4/10/10

CRR 214 2.6 CORE LOSS



REPORT OF CORE PHOTOGRAPHS: CRR 214

CLIENT: Aecom Australia Pty Ltd PROJECT: Cross River Rail

PROJECT: Cross River Rail LOCATION: Christensen St JOB NO: 107632034 COORDS: 0501624 m E 6956103 m N SURFACE RL: 14.77 DATUM: AHD

INCLINATION: -90° HOLE DEPTH: 30.1 m DEPTH RANGE: 18.0-30.1 m

DRILL RIG: Fox B40

DRILLER: Schneider Drilling Pty Ltd LOGGED: RCD DATE: 30/08/10 CHECKED: NK DATE: 4/10/10





Aecom Australia Pty Ltd

Cross River Rail

CLIENT:

PROJECT:

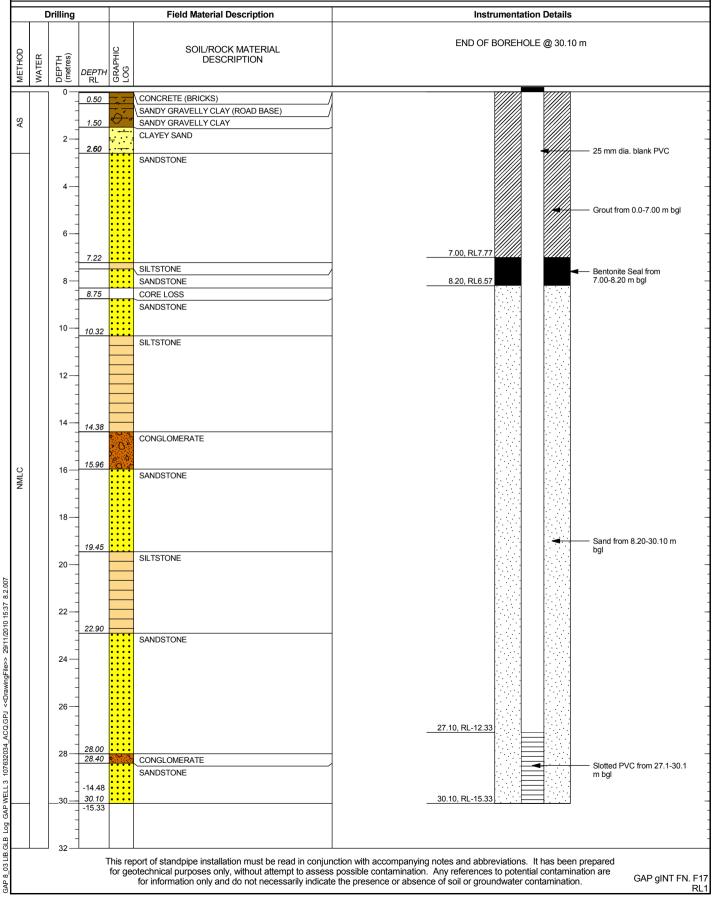
REPORT OF STANDPIPE INSTALLATION: CRR 214

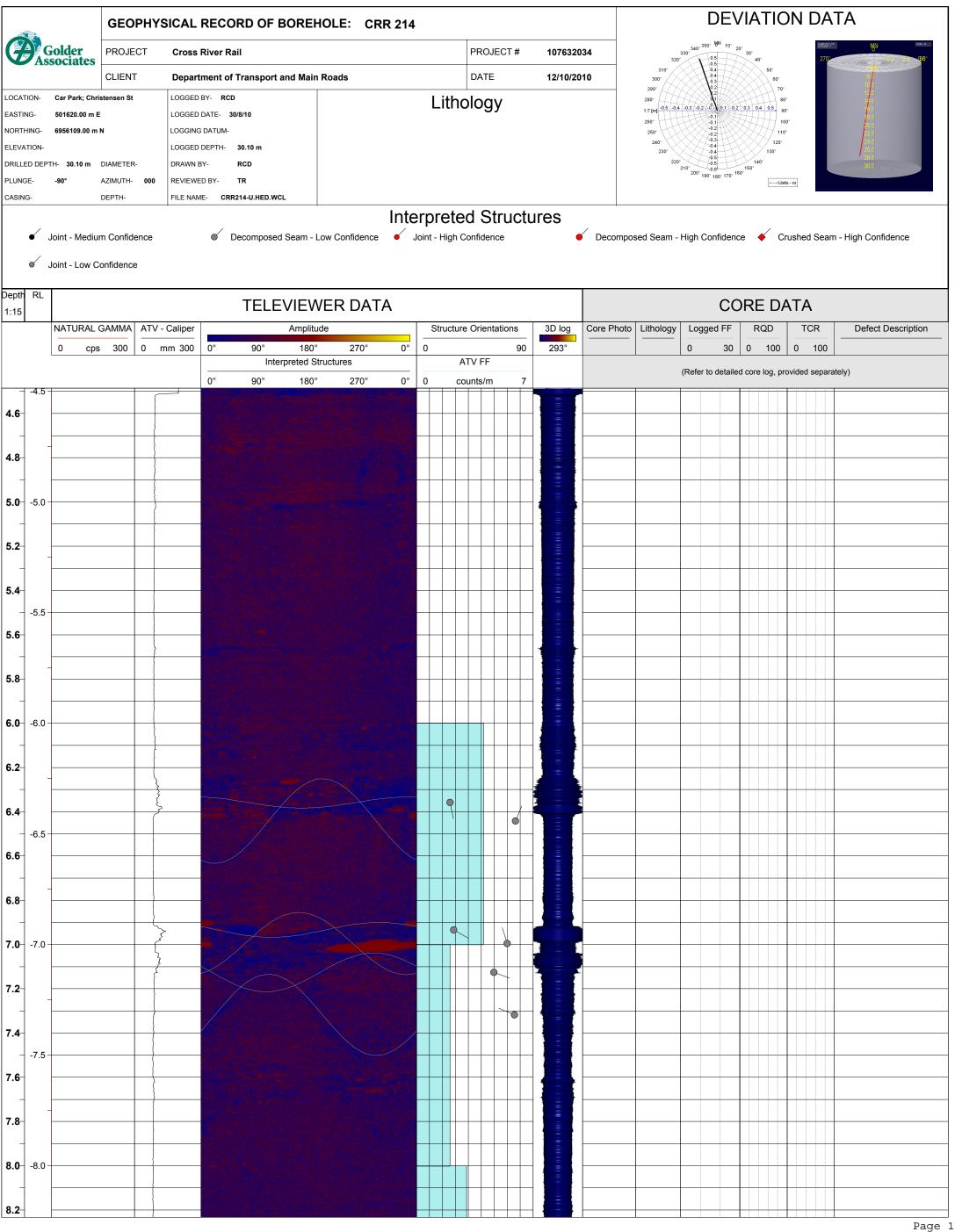
COORDS: 501624.12 m E 6956103.75 m N MGA94 56

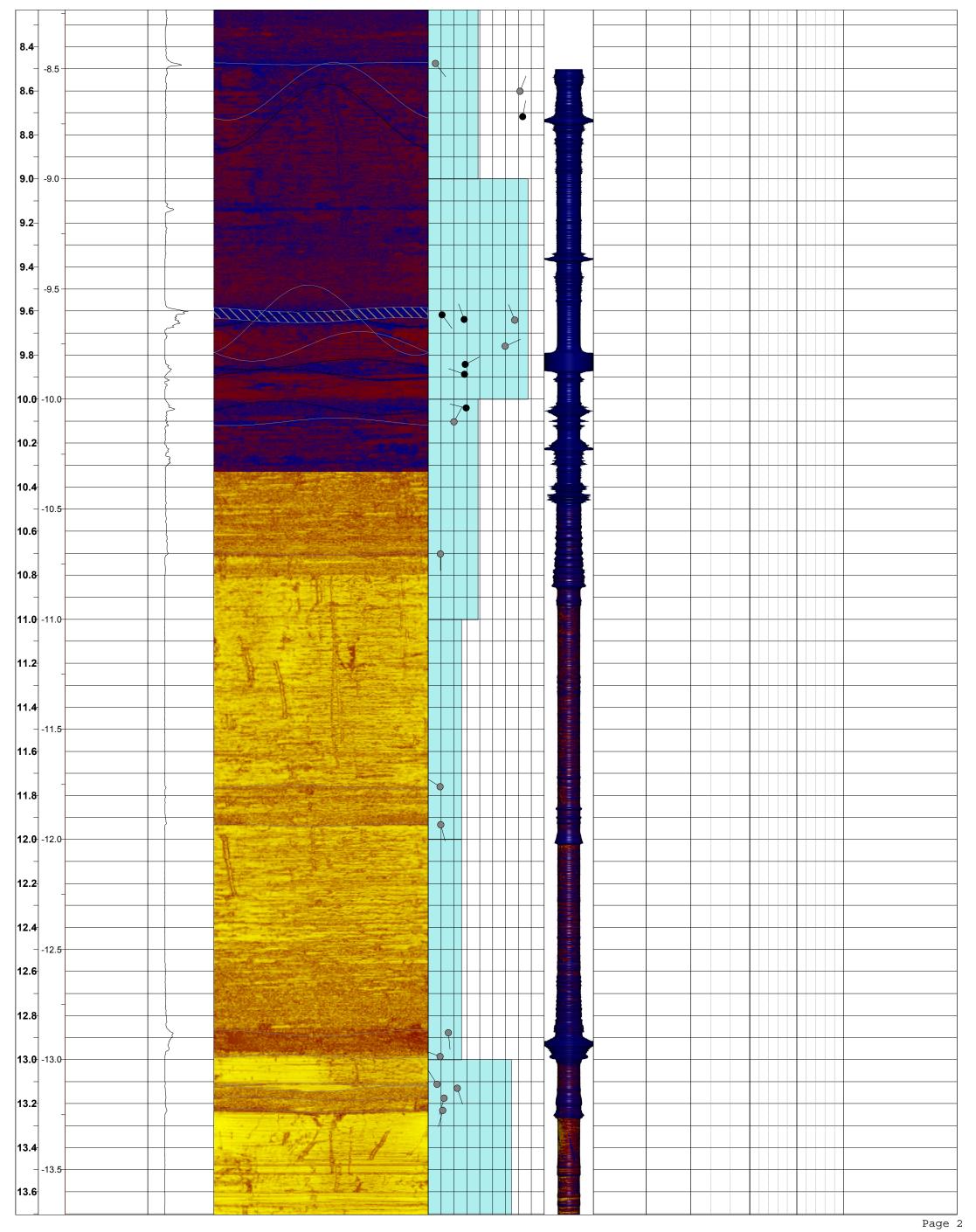
SURFACE RL: 14.77 m DATUM: AHD

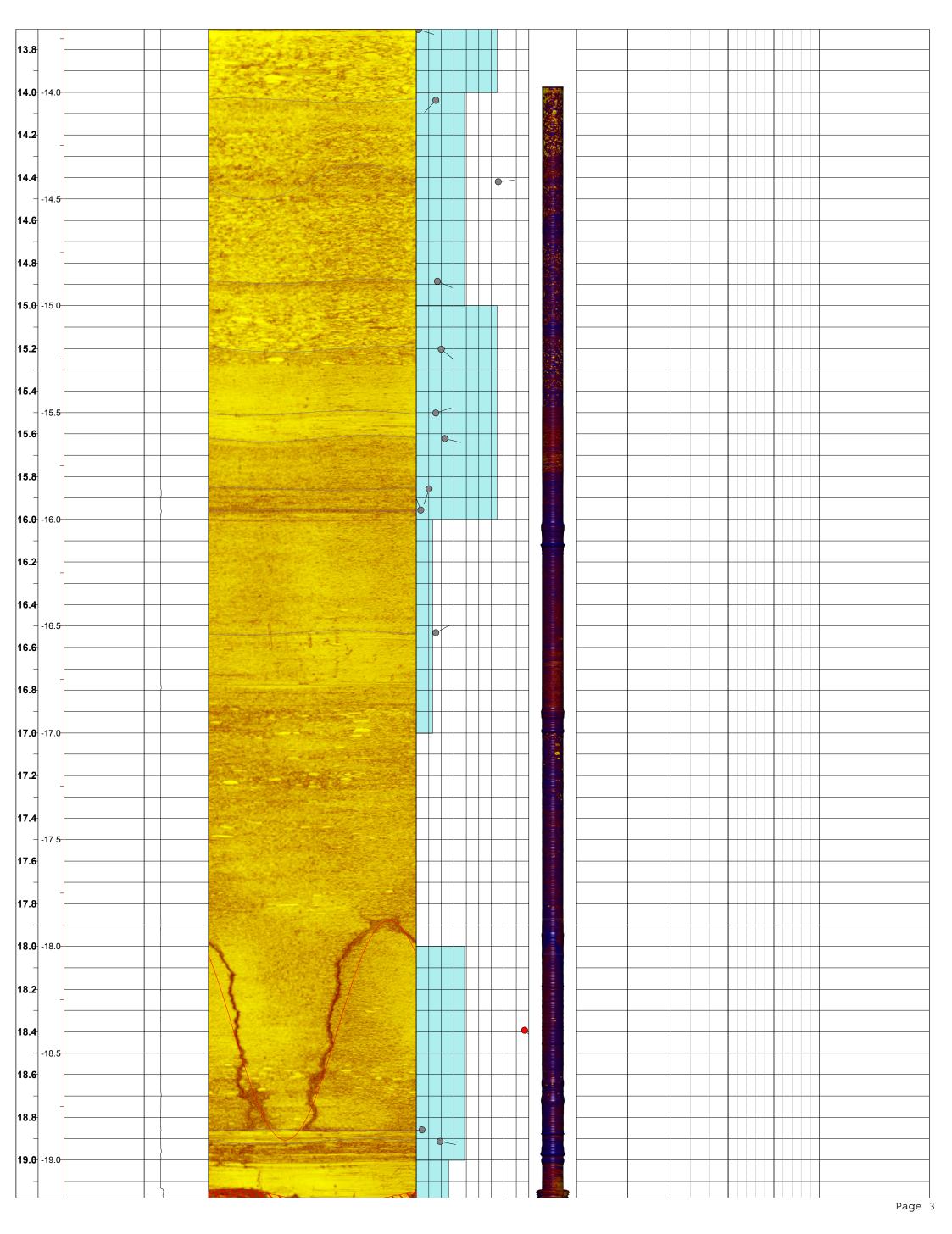
LOCATION: Christensen St Park and Ride INCLINATION: -90° JOB NO: 107632034 HOLE DEPTH: 30.10 m SHEET: 1 OF 1 DRILL RIG: FOX B40

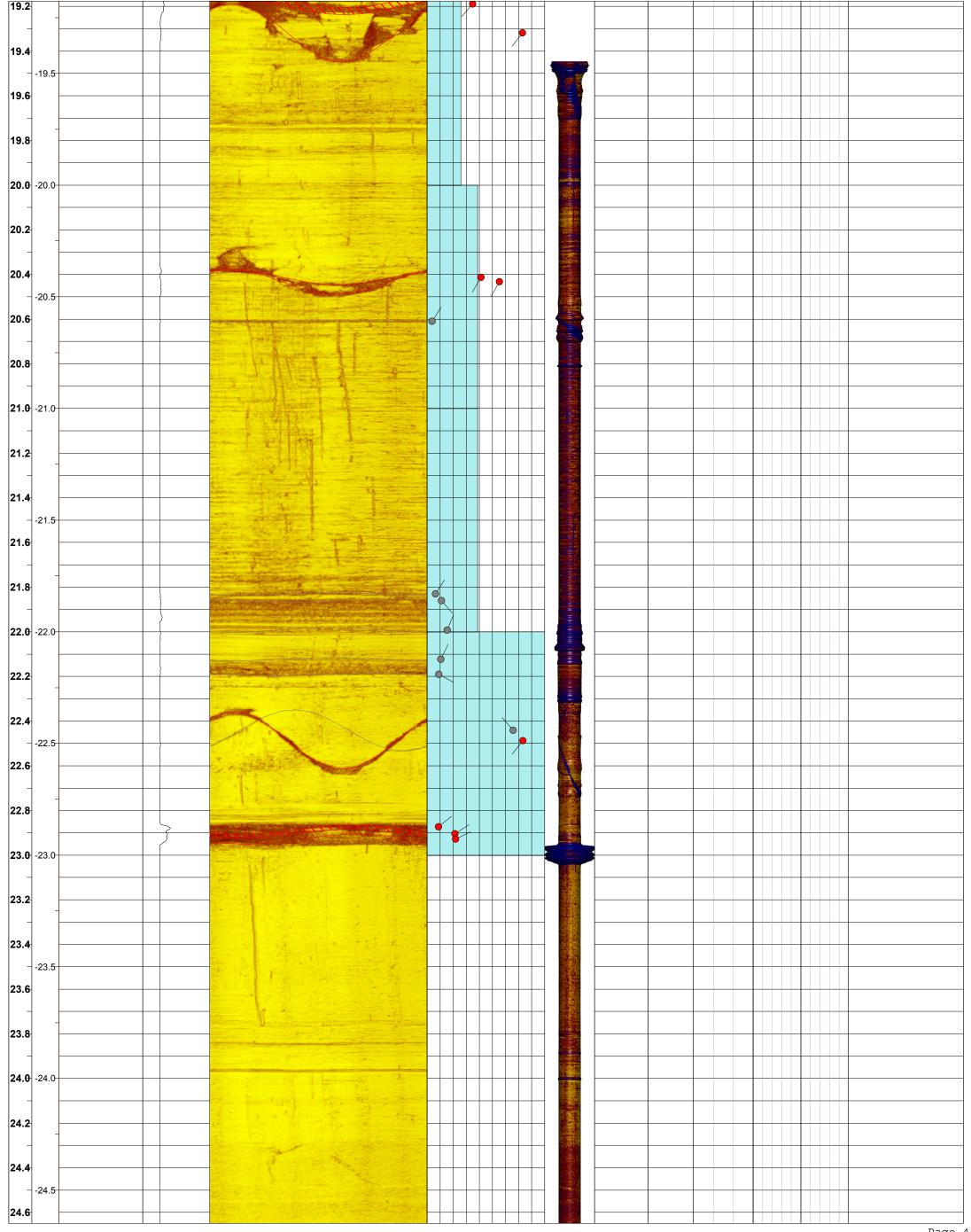
CONTRACTOR: Schneider Drilling Pty Ltd LOGGED: RCD DATE: 30/8/10 CHECKED: NK DATE: 18/10/10

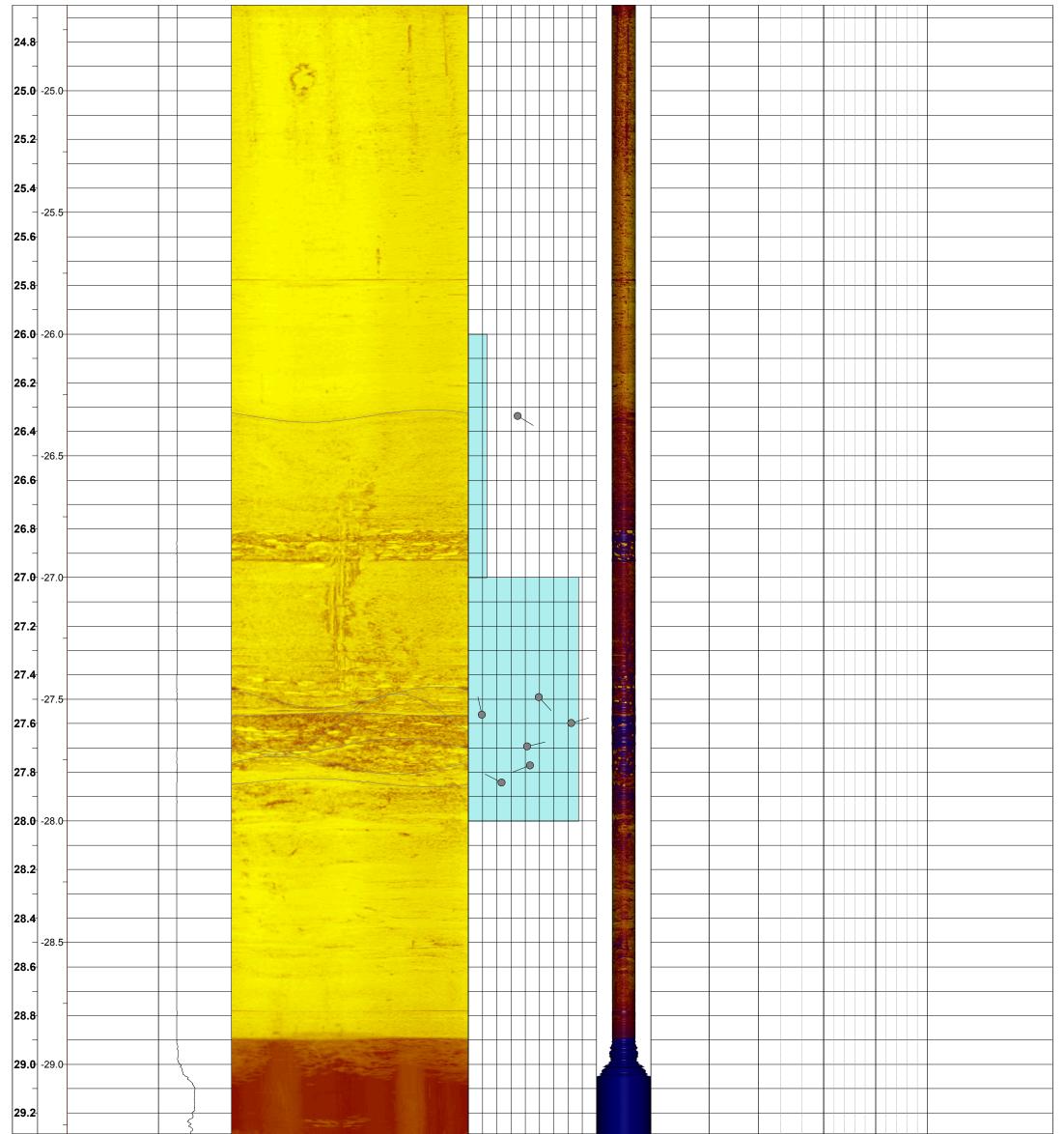




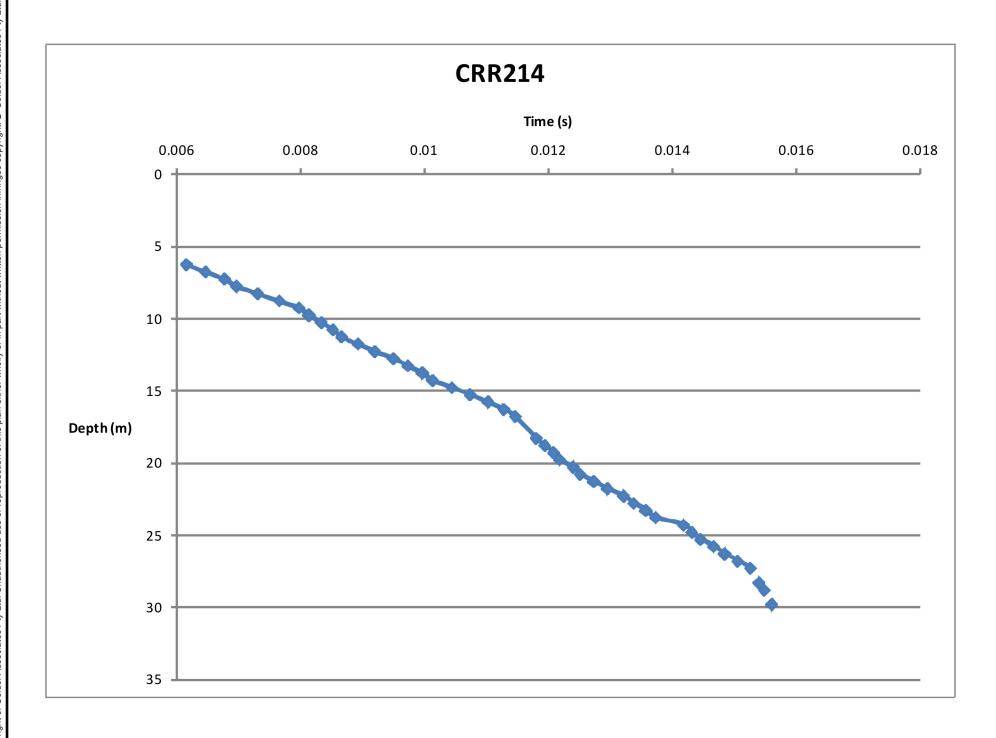


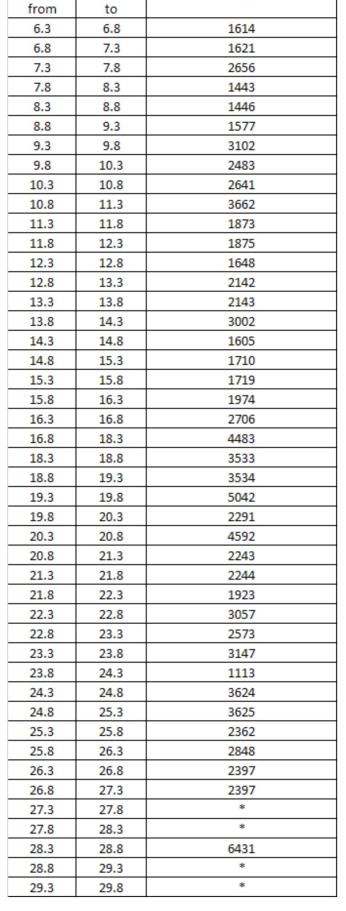






GA-BQ-291 RL1 Issued 31/03/10





Geophone Depth (m) Interval velocity (P wave m/s)

Note:

* - 1st arrival not clear due to noise

Calculations done without accounting for borehole deviation

Golder	17
Associates	N
S	1

		epartment o		Cross River Rail							
	DRAWN	GDK	DATE OCT 4	CRR214 VSP							
es	CHECKED	TR	DATE								
	SCALE	NTS		PROJECT N₀	000-107632034	FIGURE No	REV No	А3			