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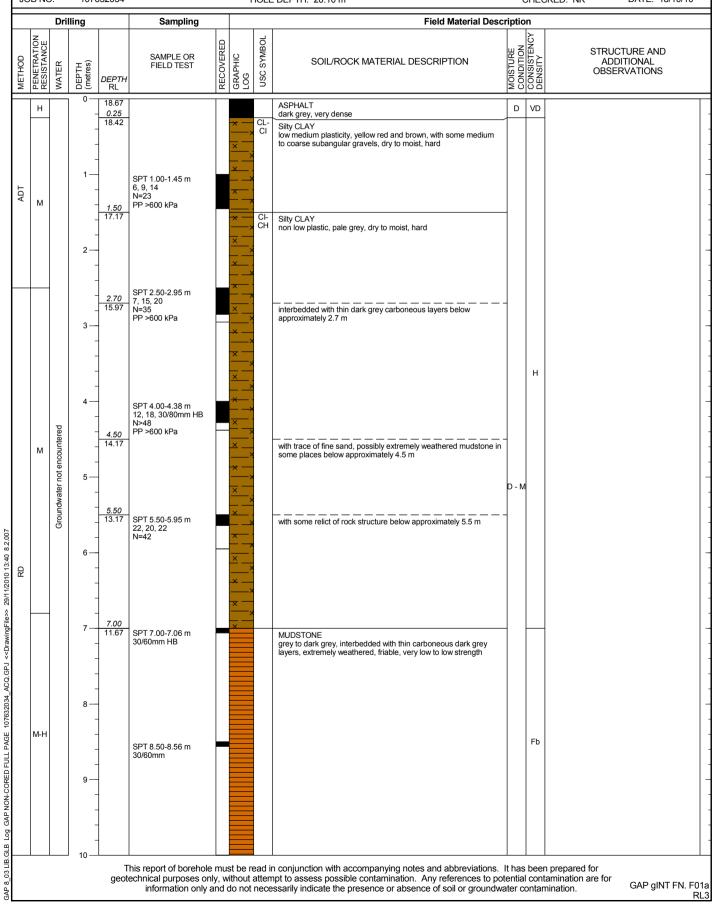
SHEET: 1 OF 4

COORDS: 501491.44 m E 6955728.94 m N MGA94 56

DRILL RIG: FD500

 CLIENT:
 Aecom Australia Pty Ltd
 COORDS: 501491.44 m E 6955728.94 m N MGA94 56
 DRILL RIG: FD500

 PROJECT:
 Cross River Rail
 SURFACE RL: 18.67 m DATUM: AHD
 CONTRACTOR: Foundril Pty Ltd

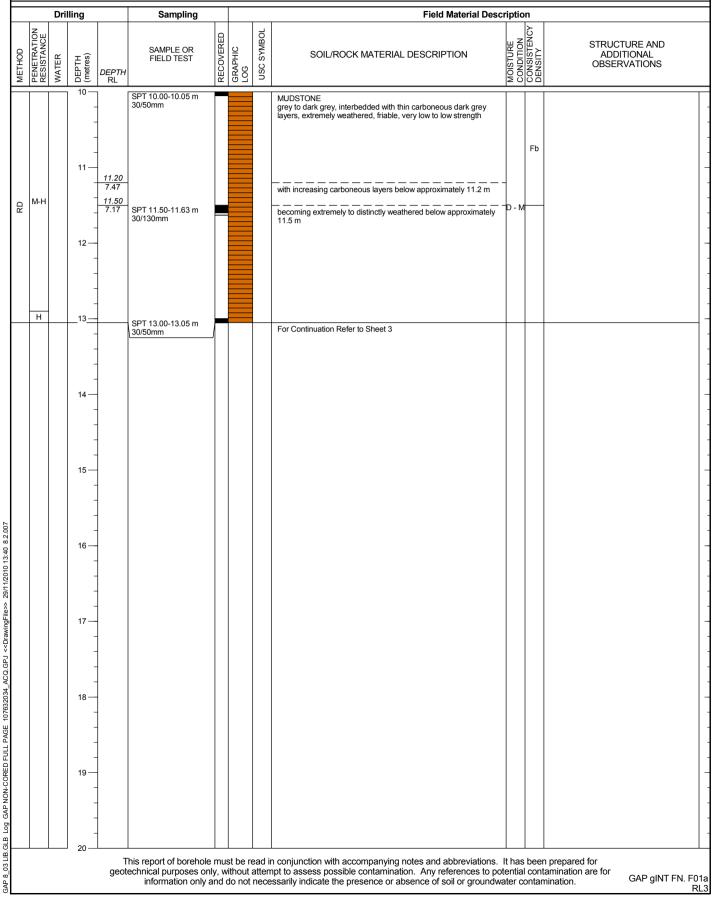




SHEET: 2 OF 4
COORDS: 501491.44 m E 6955728.94 m N MGA94 56
DRILL RIG: FD500

 CLIENT:
 Aecom Australia Pty Ltd
 COORDS: 501491.44 m E 6955728.94 m N MGA94 56
 DRILL RIG: FD500

 PROJECT:
 Cross River Rail
 SURFACE RL: 18.67 m DATUM: AHD
 CONTRACTOR: Foundril Pty Ltd





SHEET: 3 OF 4

COORDS: 501491.44 m E 6955728.94 m N MGA94 56

DRILL RIG: FD500

 CLIENT:
 Aecom Australia Pty Ltd
 COORDS: 501491.44 m E 6955728.94 m N MGA94 56
 DRILL RIG: FD500

 PROJECT:
 Cross River Rail
 SURFACE RL: 18.67 m DATUM: AHD
 CONTRACTOR: Foundril Pty Ltd





SHEET: 4 OF 4
COORDS: 501491.44 m E 6955728.94 m N MGA94 56
DRILL RIG: FD500

 CLIENT:
 Aecom Australia Pty Ltd
 COORDS: 501491.44 m E 6955728.94 m N MGA94 56
 DRILL RIG: FD500

 PROJECT:
 Cross River Rail
 SURFACE RL: 18.67 m DATUM: AHD
 CONTRACTOR: Foundril Pty Ltd

Drilling Field Material Description			Defect Information				
Drilling	Drilling Field Material Description			INFERRED	Defect Information FRACTURE		
5 \$ F & D5	DEPTH S PROCK	(/ SOIL MATERIAL DESCRIPTION	WEATHERING	STRENGTI Is ₍₅₀₎ MPa	DEFECT DESCRIPTION & Additional Observations	FREQUENC (Defects per unit metre length)	
20-	CORE LOS END OF BI GROUNDY LEFT OPE	OREHOLE @ 20.10 m WATER NOT ENCOUNTERED			15.90: HB 15.94: HB 16.00: HB 16.00: HB 16.05: J. 0°, PI, Sm. Cn, possible drilling break 16.23: J. 0°, PI, Sm. Cn, possible drilling break 16.43: DB 16.65: DS, 0°, PI, Sm. Vr, yellow brown silty clay 16.69: J. 0°, PI, Sm. Cn, possible drilling break 18.87: J. 0°, PI, Sm. Cn, possible drilling break 17.00: J. 0°, PI, Sm. Cn, possible drilling break 17.12: J. 0°, PI, Sm. Cn, possible drilling break 17.20: J. 0°, PI, Sm. Vr, dark yellow brown silty clay, possible drilling break 17.21: J. 0°, PI, Ro, Cn, possible drilling break 17.34: J. 0°, PI, Ro, Cn, possible drilling break 17.34: J. 0°, PI, Ro, Cn, possible drilling break 18.22: HB 18.25: HB 18.30: J. 5°, Un, Ro, Cn 18.31: HB 18.30: J. 10°, PI-Un, Sm-Ro, Cn 18.85: 19.90: DS, 0°, PI, Sm. Cn, dark yellow brown silty clay and fragmented rock pieces (1-5mm) 18.98: HB 19.00: HB 19.17: J. 10°, Un, Ro, Cn 19.21: J. 0°, PI-St, Sm. Cn, possible drilling break 19.23: C, 10° 19.39: J. 90°, PI, Sm. Cn 19.42: J. 0°, PI-St, Sm. Cn 19.42: J. 0°, PI-St, Sm. Cn 19.42: J. 0°, PI-St, Sm. Cn 19.43: J. 5°, Un, Ro, Vr, dark grey coal 19.55: HB 19.60: J. 20°, PI-Un, Ro, Cn, possible drilling break 19.87: J. 90°, PI, Sm. Cn, possible drilling break 19.87: J. 90°, PI, Sm. Cn, possible drilling break 19.87: J. 90°, PI, Sm. Cn, possible drilling break 19.87: J. 90°, PI, Sm. Cn, possible drilling break 19.87: J. 90°, PI, Sm. Cn, possible drilling break 19.87: J. 90°, PI, Sm. Cn, possible drilling break 19.87: J. 90°, PI, Sm. Cn, possible drilling break		



REPORT OF CORE PHOTOGRAPHS: CRR 215

CLIENT: Aecom Australia Pty Ltd

PROJECT: Cross River Rail LOCATION: Wilkie Street JOB NO: 107632034 COORDS: 501491 m E 6955728 m N SURFACE RL: 18.67 DATUM: AHD

INCLINATION: -90° HOLE DEPTH: 20.1~m

DEPTH RANGE: 13.0 5-20.1 m

DRILL RIG: FD500 DRILLER: Foundril Pty Ltd

LOGGED: FHH DATE: 30/08/10 CHECKED: NK DATE: 4/10/10



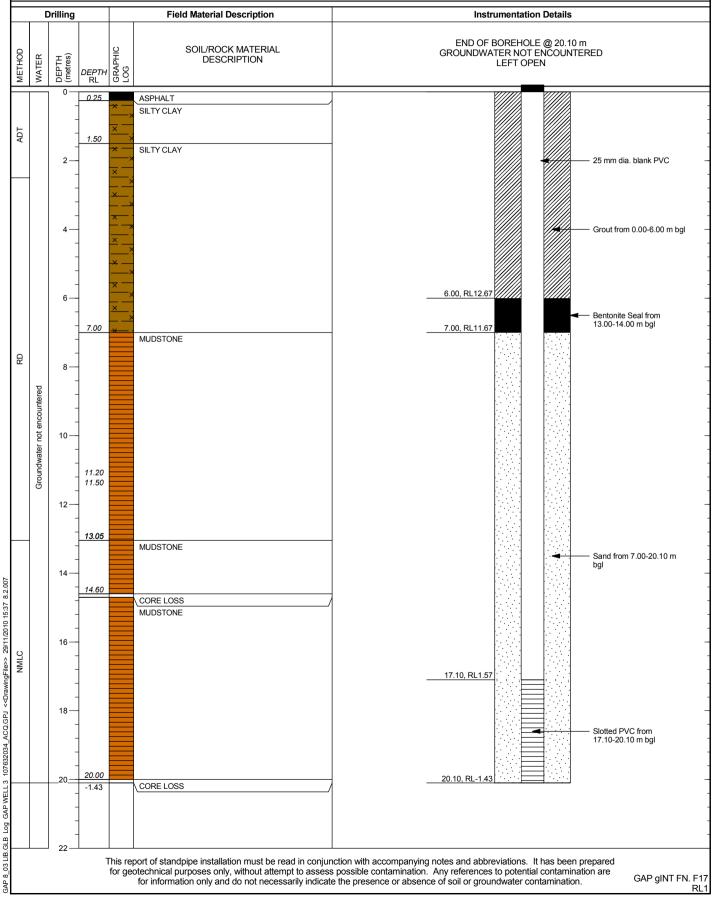


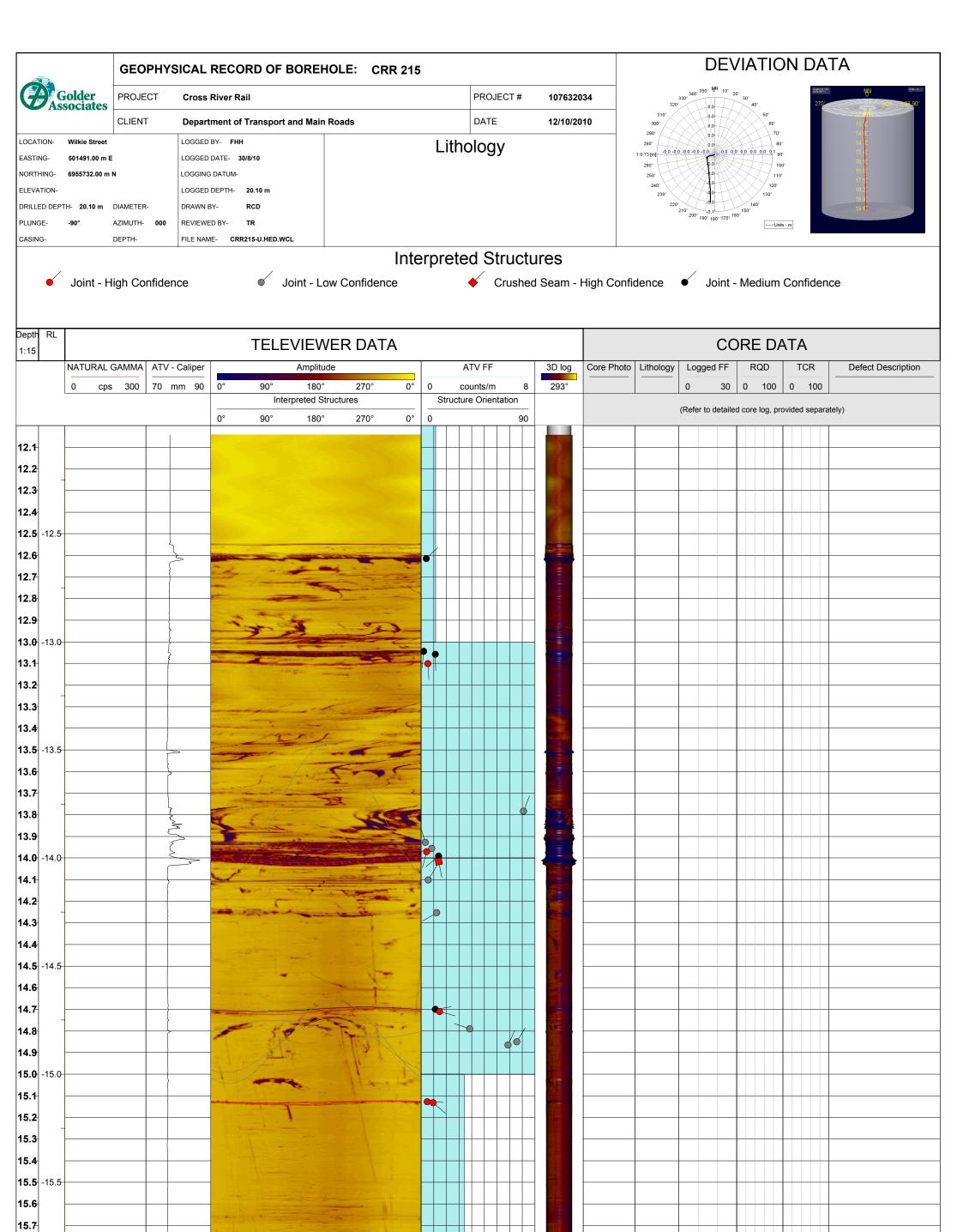
REPORT OF STANDPIPE INSTALLATION: CRR 215

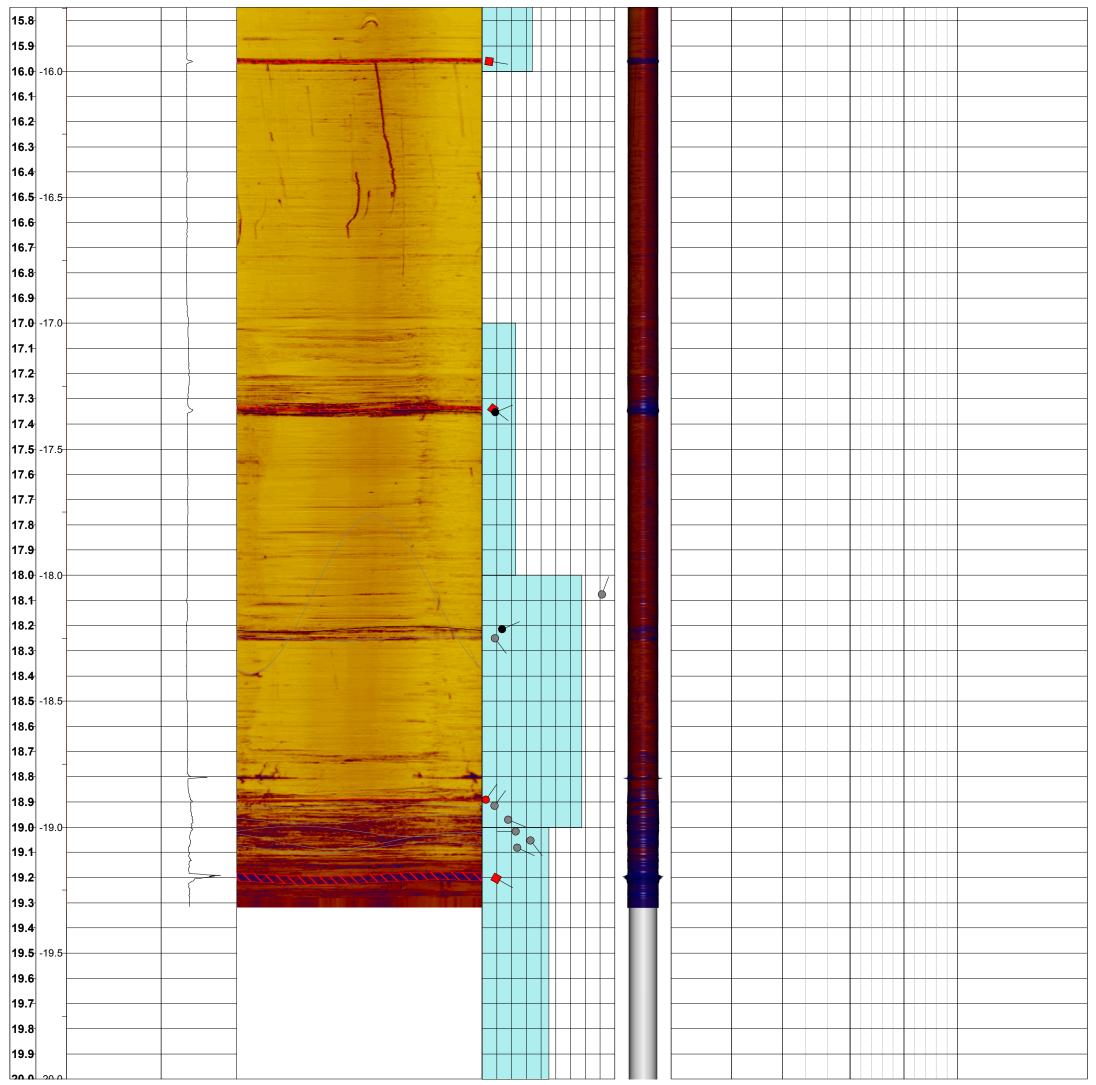
SHEET: 1 OF 1
COORDS: 501491.44 m E 6955728.94 m N MGA94 56
DRILL RIG: FD50

 CLIENT:
 Aecom Australia Pty Ltd
 COORDS: 501491.44 m E 6955728.94 m N MGA94 56
 DRILL RIG: FD500

 PROJECT:
 Cross River Rail
 SURFACE RL: 18.67 m DATUM: AHD
 CONTRACTOR: Foundril Pty Ltd







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

Geophone Depth (m)		Interval velocity (P wave m/s)		
from	to			
13.6	14.6	3457		
14.6	15.6	1370		
15.6	16.6	2251		
16.6	17.6	3332		
17.6	18.6	2141		
18.6	19.6	2141		

Note:

* - 1st arrival not clear due to noise

Calculations done without accounting for borehole deviation

Associates	Golder	
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	CLIENT Department of Transport and Main Roads			Cross River Rail					
	DRAWN	GDK	DATE OCT 4	TITLE	CRR215 VSP				
es	CHECKED	TR	DATE	SIME 13 VOI					
	SCALE	NTS		PROJECT No	000-107632034	FIGURE No	REV No	А3	