

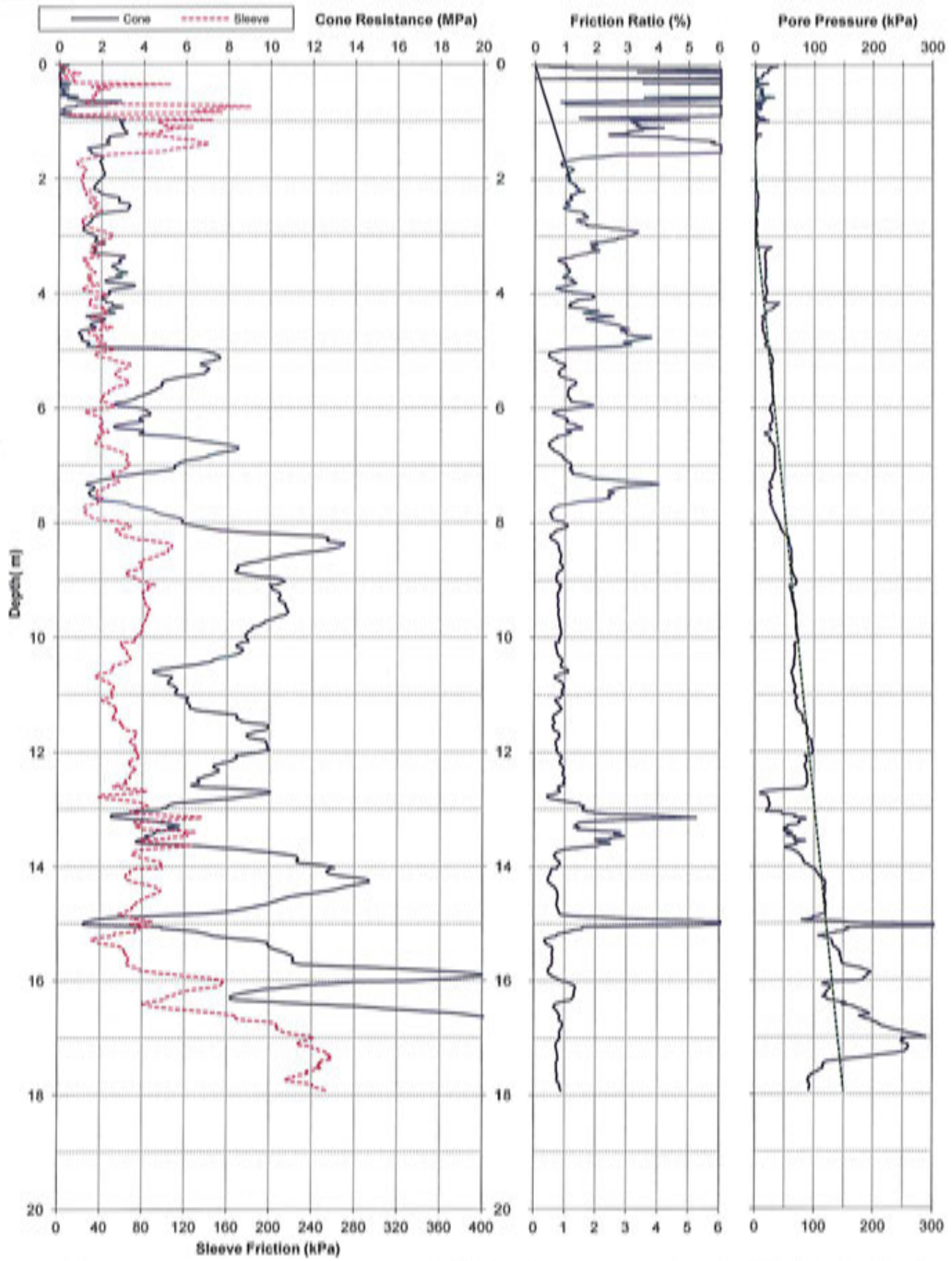


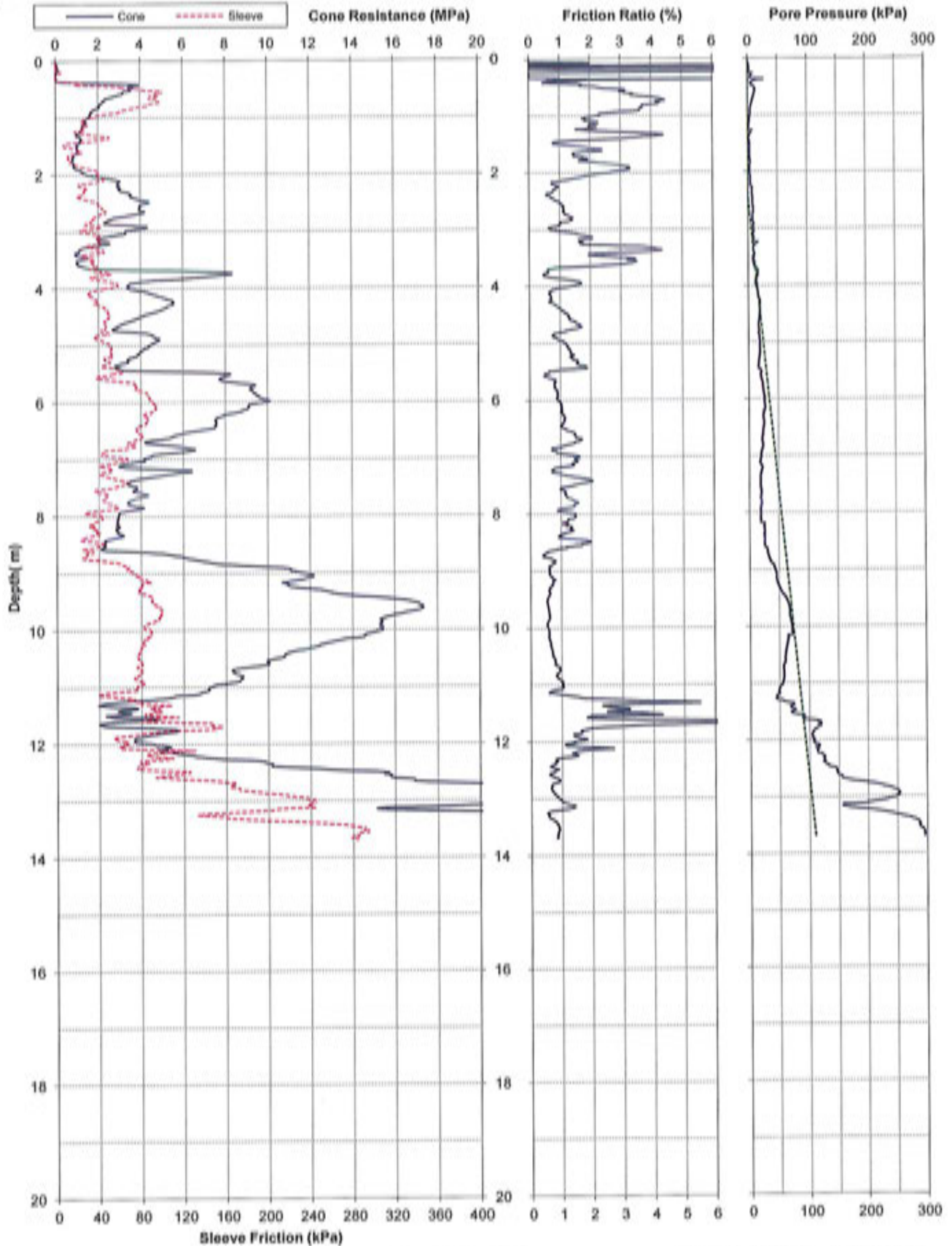




Appendix L: University of Canterbury Piezocone Results

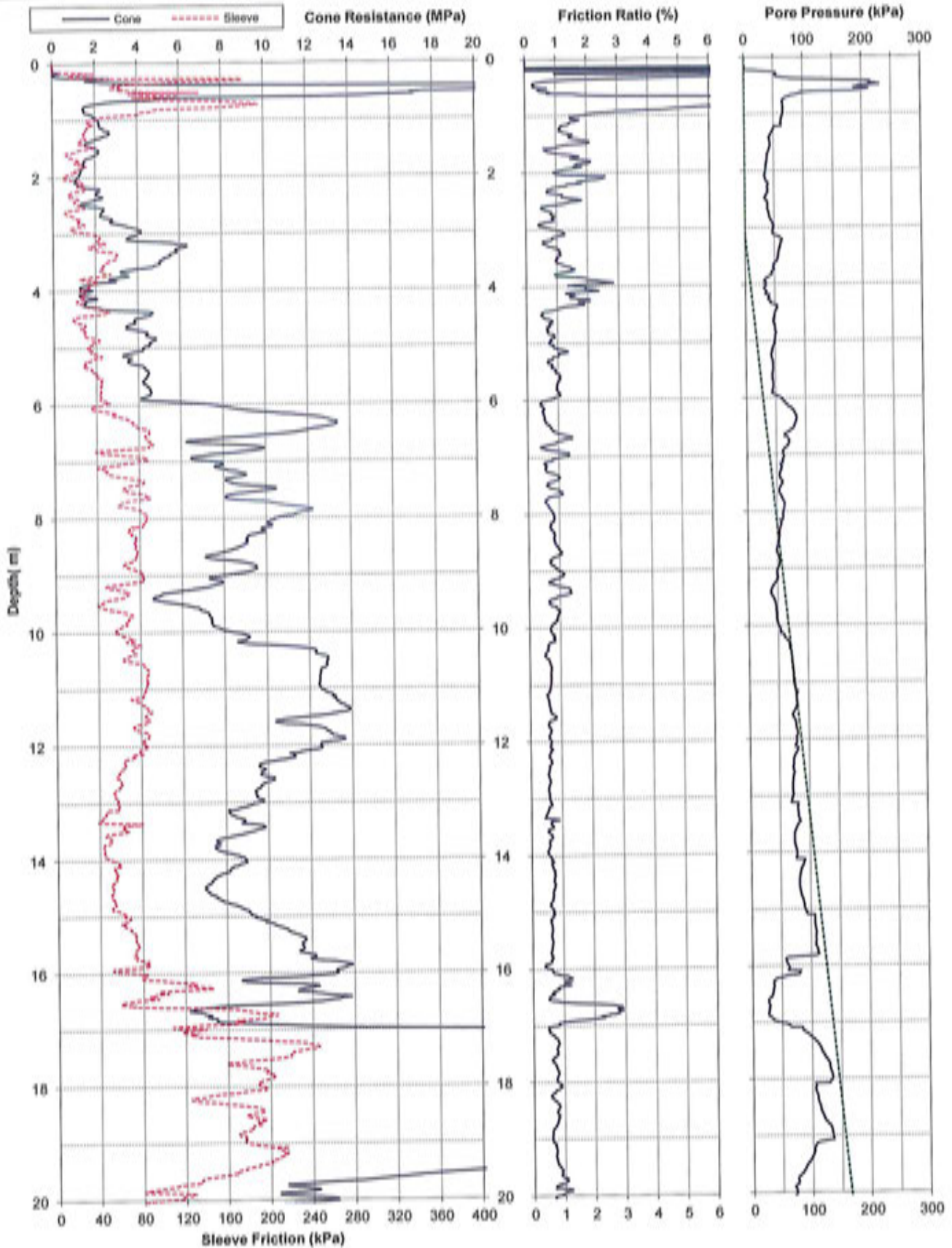
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z1-1	
Test Date: 22-Jul-2011	Location: Central City	Operator: McMillan	 		
Pre-Drill: 1.2m	Assumed GWL: 2.6mBGL	Located By: Survey GPS			
Position: 2480778.3mE 5742313.9mN 17.92mRL	Coord. System: NZMG & MSL	Comments:			
Other Tests:					





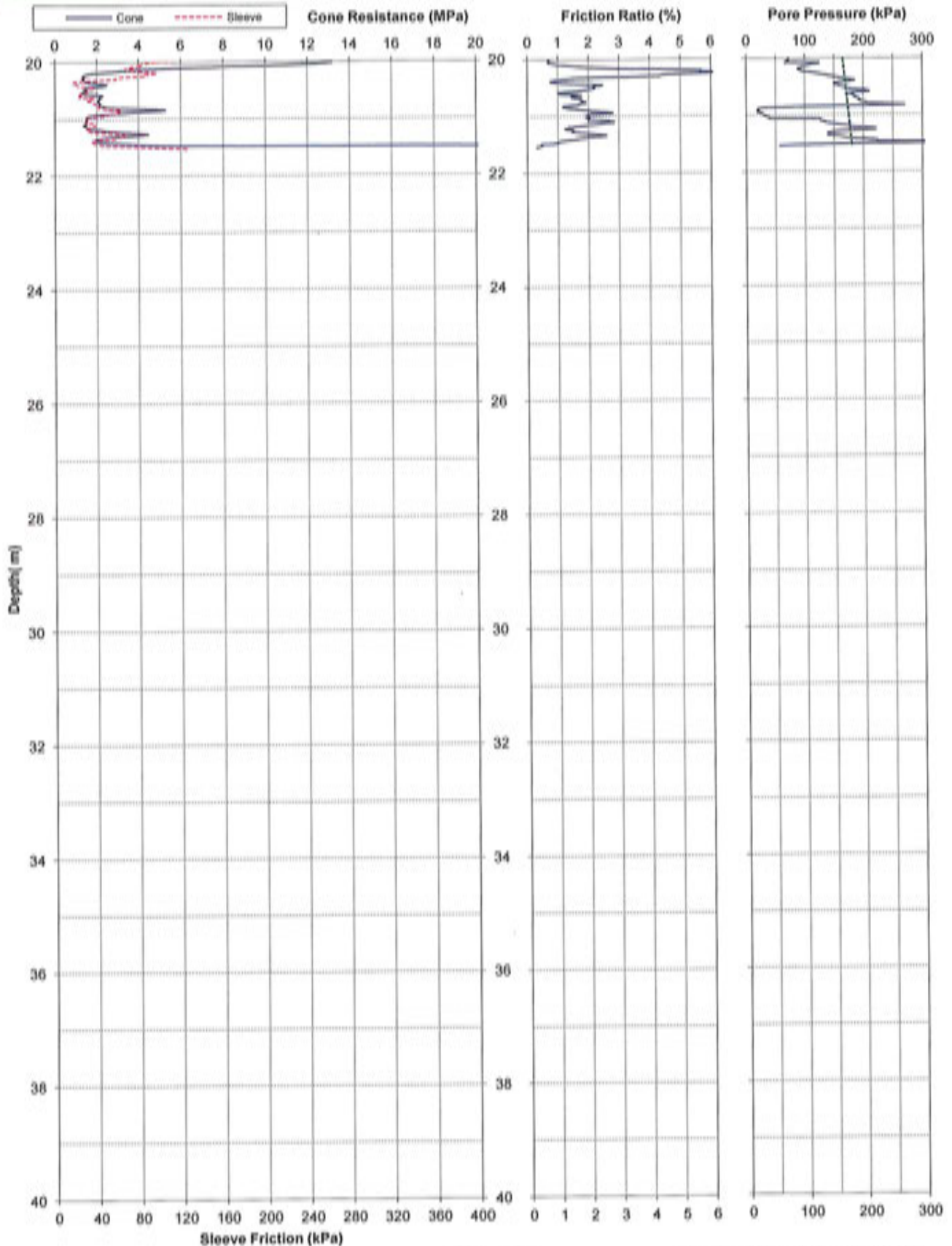
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z1-3	
Test Date: 21-Jul-2011	Location: Central City	Operator: McMillan	 		
Pre-Drill: 1.2m	Assumed GWL: 2.4mBGL	Located By: Survey GPS			
Position: 2480813.6mE 5742266.4mN 13.69mRL	Coord. System: NZMG & MSL				
Other Tests:		Comments:			





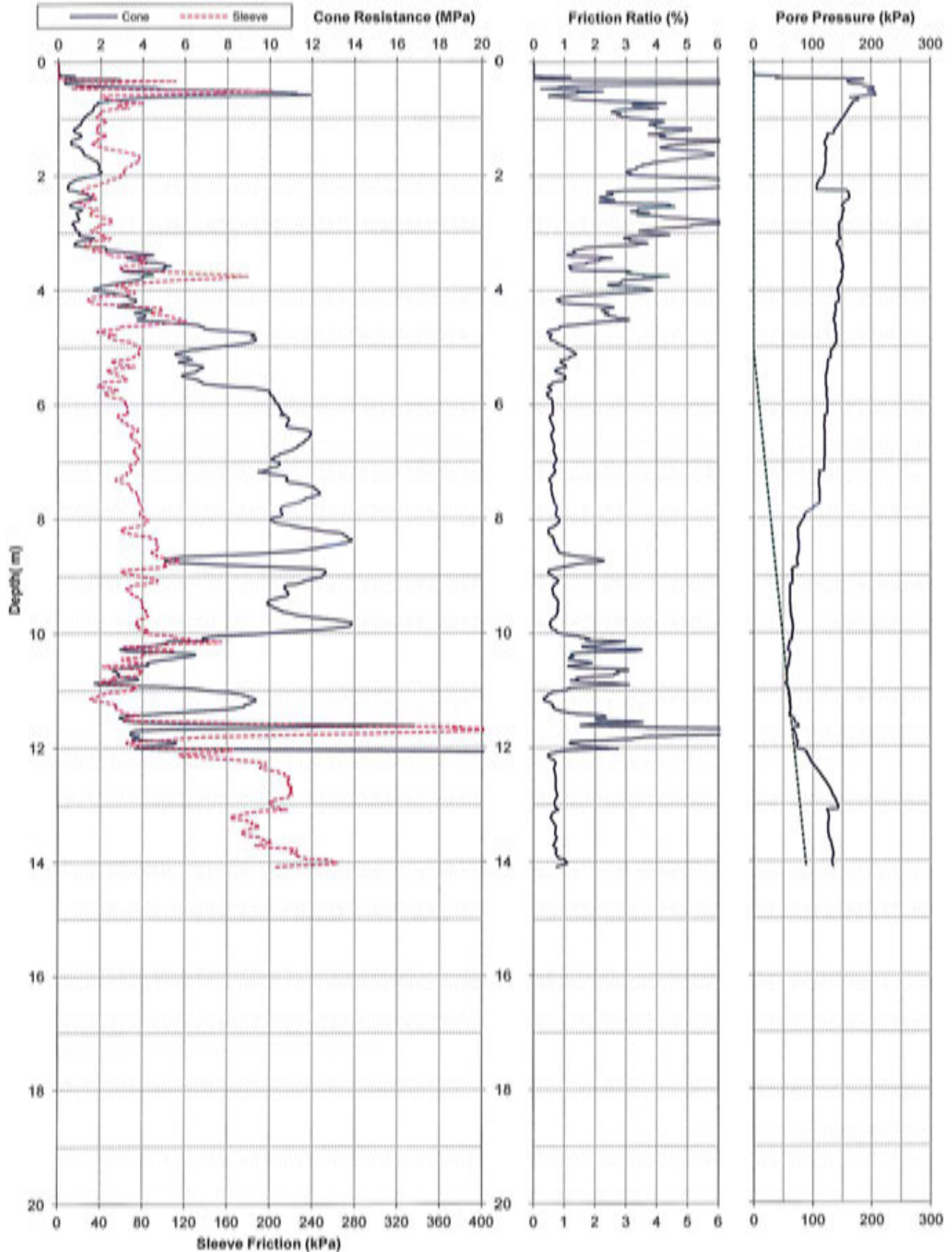
Project: Christchurch 2011 Earthquake - CCC Ground Investigations				Page: 1 of 2		CPT-CBD-Z1-4	
Test Date: 22-Jul-2011	Location: Central City	Operator: McMillan		Christchurch City Council  			
Pre-Drill: 1.2m	Assumed GWL: 3.1mBGL	Located By: Survey GPS					
Position: 2480786.8mE	5742227.4mN	21.54mRL					
Other Tests:				Comments:			





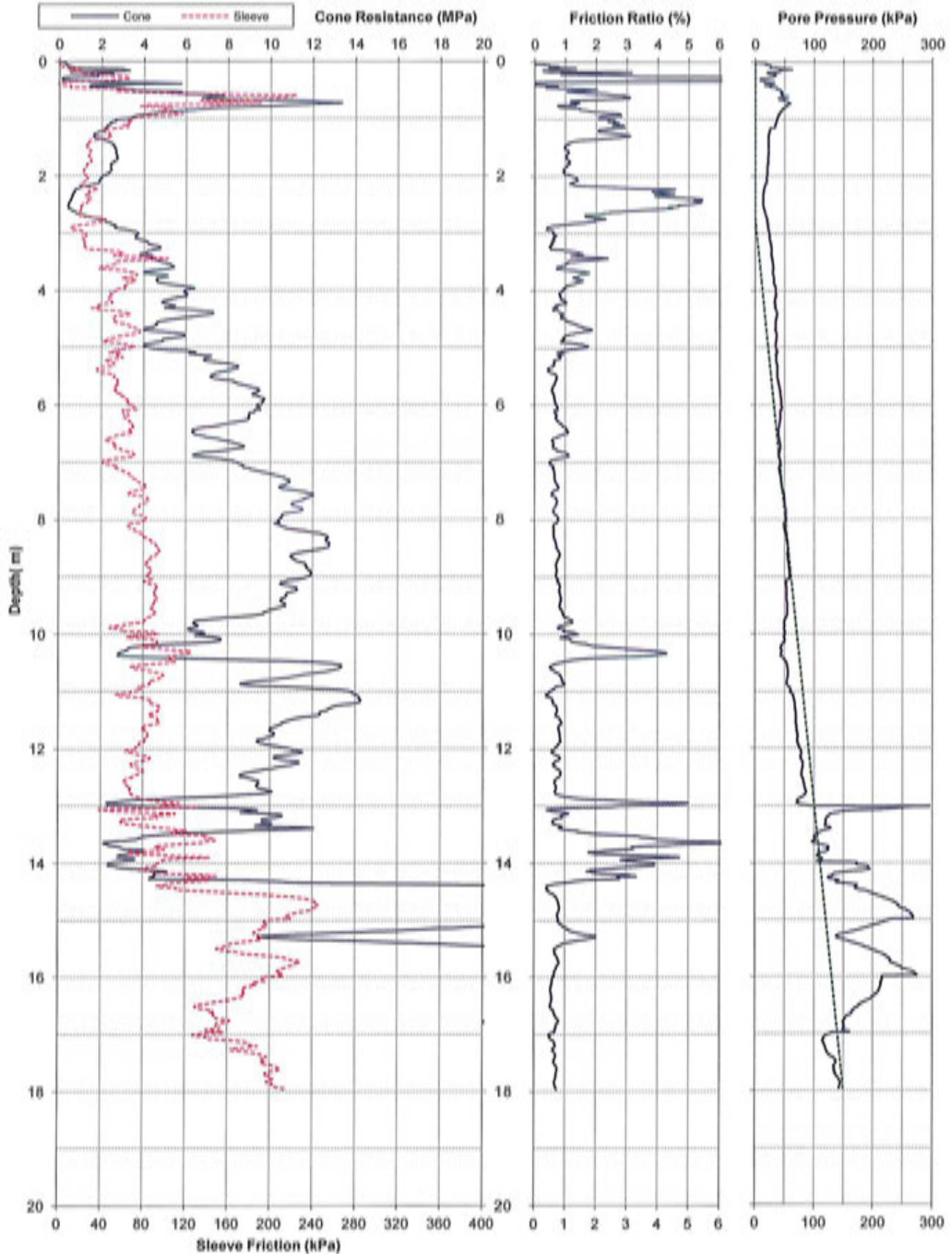
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 2 of 2		CPT-CBD-Z1-4	
Test Date: 22-Jul-2011	Location: Central City	Operator: McMillan	 			
Pre-Drill: 1.5m	Assumed GWL: 3.1mBGL	Located By: Survey GPS				
Position: 2480786.8mE 5742227.4mN 21.54mRL	Coord. System: NZMG & MSL					
Other Tests:			Comments:			





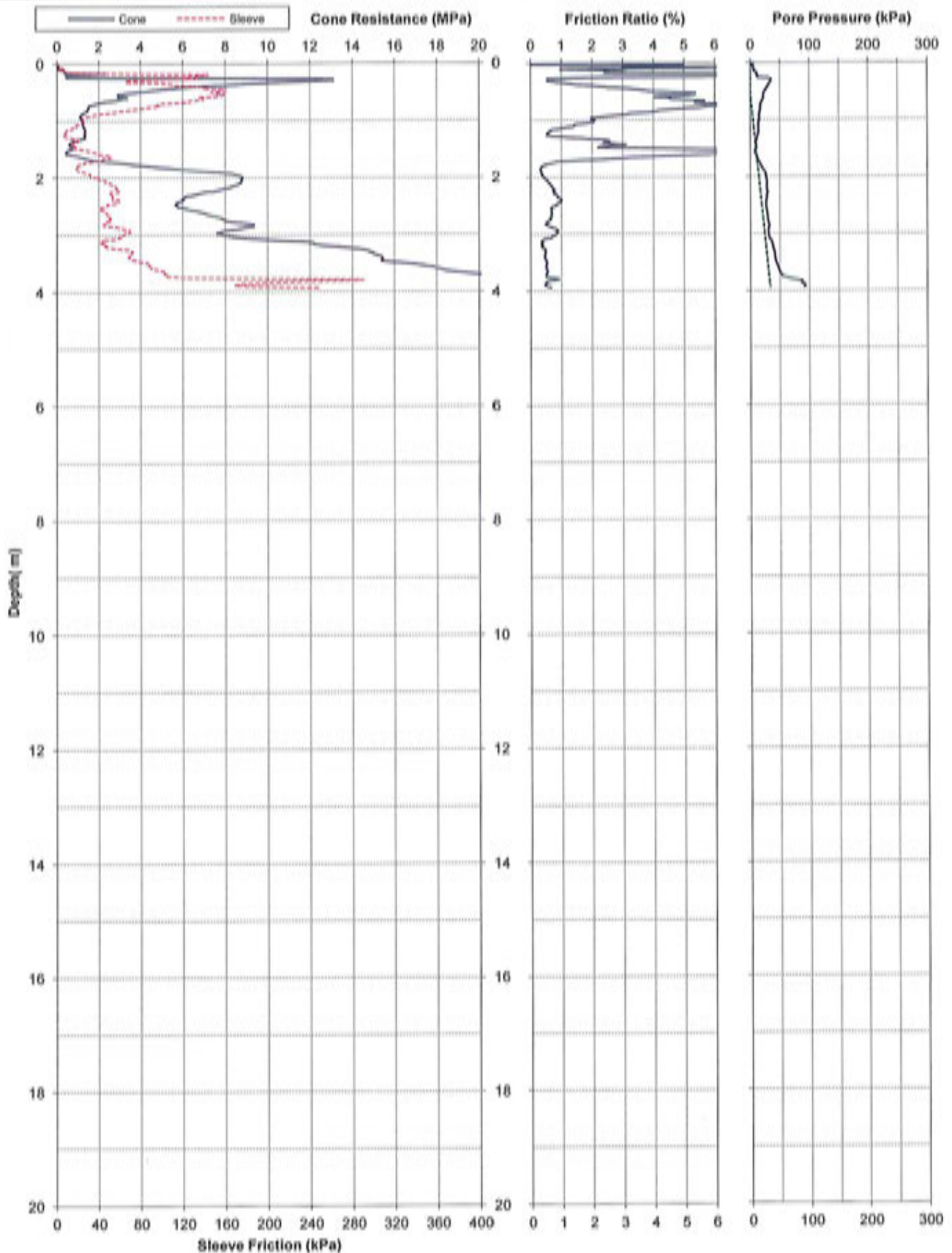
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z1-5	
Test Date: 21-Jul-2011	Location: Central City	Operator: McMillan	 		
Pre-Drill: 1.2m	Assumed GWL: 5mBGL	Located By: Survey GPS			
Position: 2480786.7mE	5742210.2mN	14.09mRL			
Other Tests:		Coord. System: NZMG & MSL			
			Comments:		





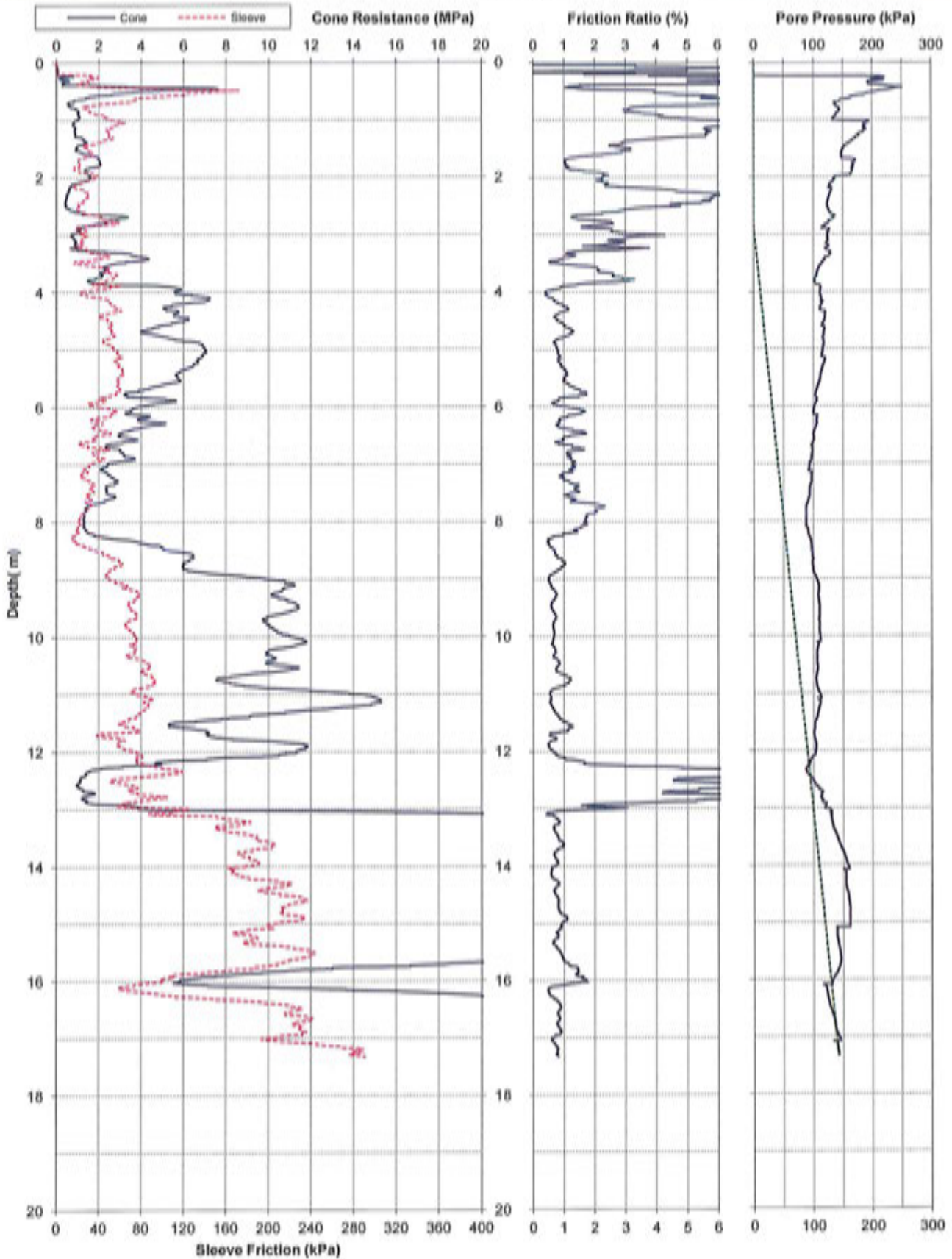
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z1-6	
Test Date: 21-Jul-2011	Location: Central City	Operator: McMillan	Christchurch City Council  		
Pre-Drill: 1.2m	Assumed GWL: 2.7mBGL	Located By: Survey GPS			
Position: 2480802.9mE 5742205.6mN 17.96mRL	Coord. System: NZMG & MSL	Comments:			
Other Tests:					




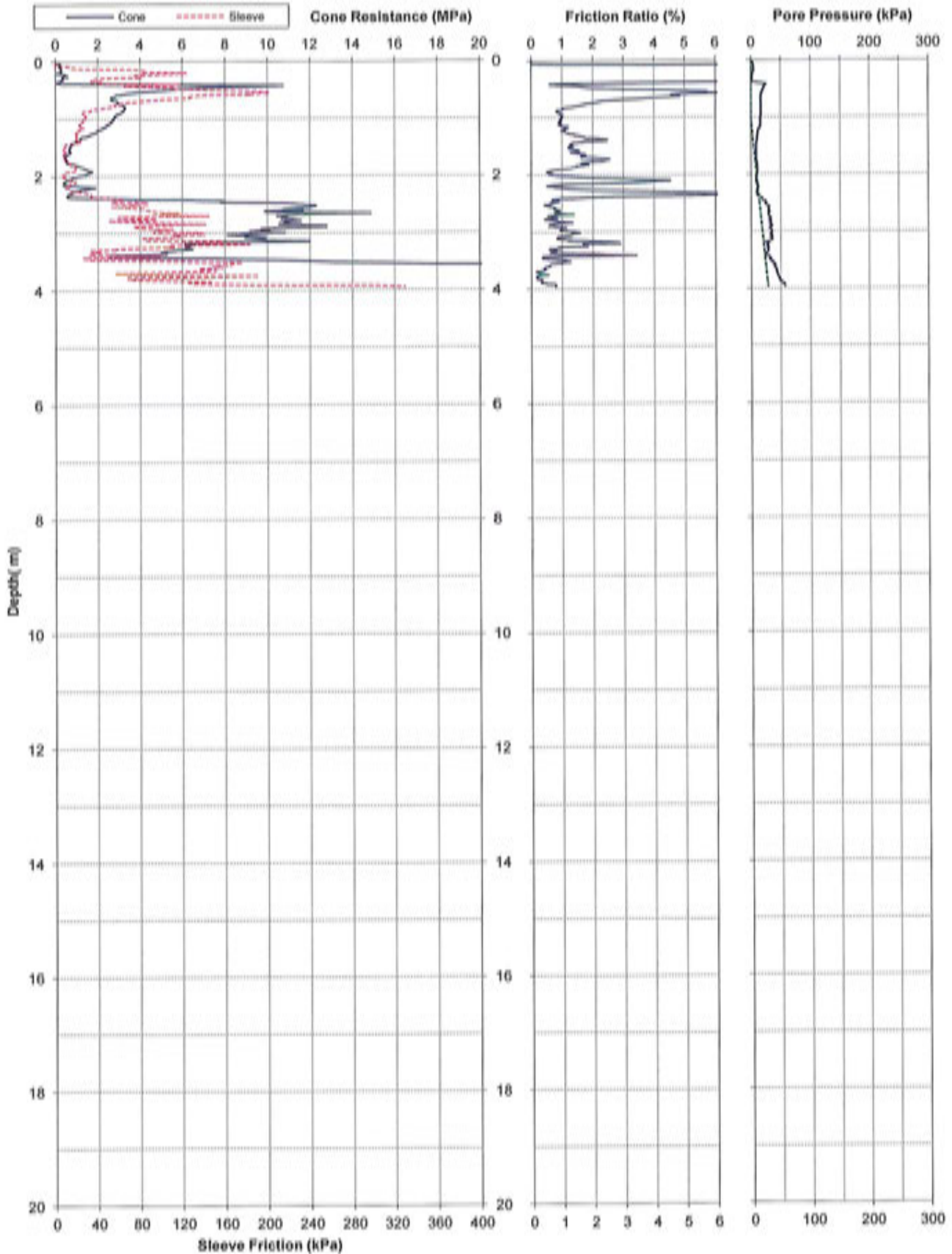
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z1-7	
Test Date: 21-Jul-2011	Location: Central City	Operator: McMillan		 	
Pre-Drill: 1.2m	Assumed GWL: 0.5mBGL	Located By: Survey GPS			
Position: 2480747.9mE 5742161.2mN 3.93mRL	Coord. System: NZMG & MSL				
Other Tests:			Comments:		





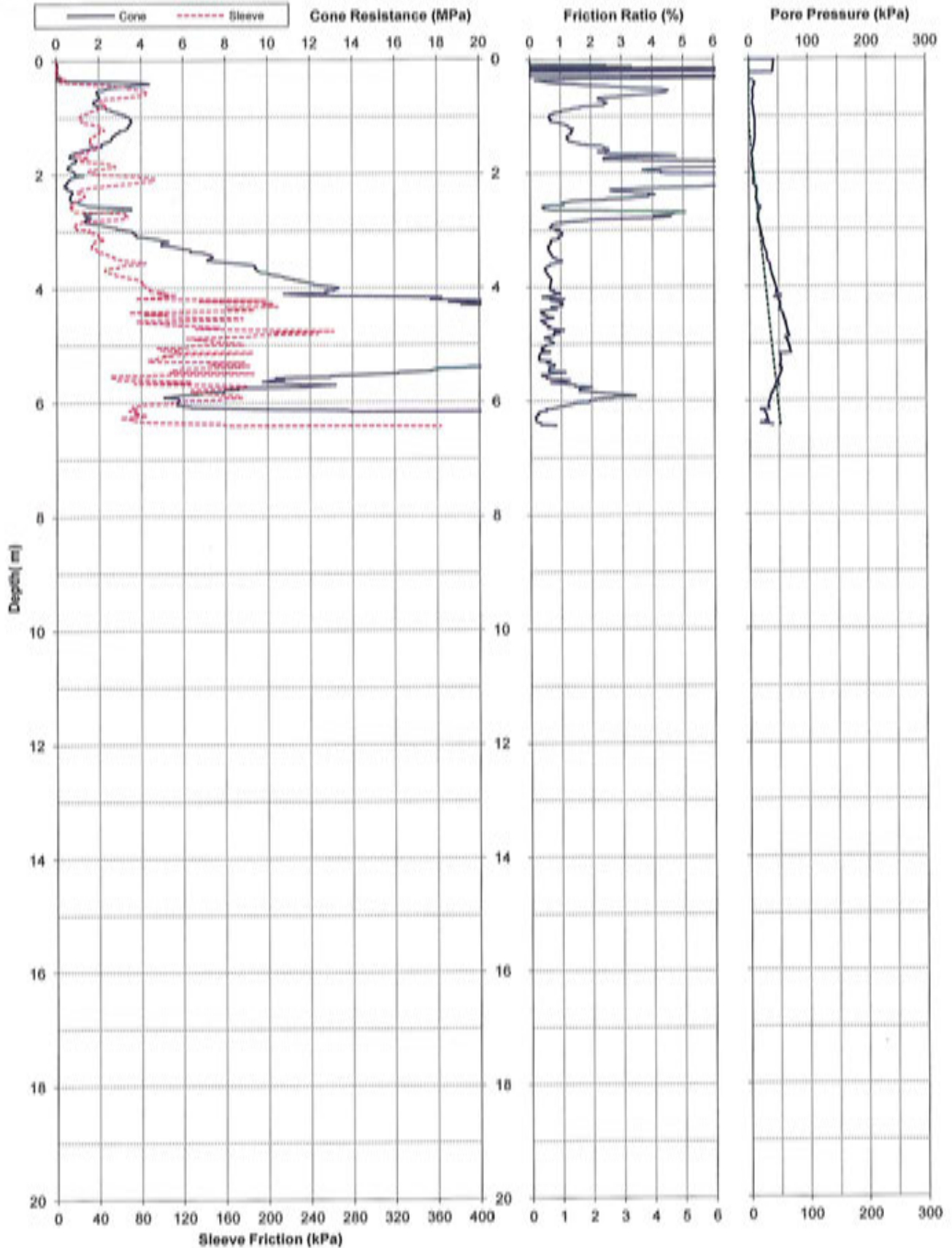
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z1-8	
Test Date: 21-Jul-2011	Location: Central City	Operator: McMillan	 		
Pre-Drill: 1.2m	Assumed GWL: 2.8mBGL	Located By: Survey GPS			
Position: 2480810.9mE	5742293.5mN	17.32mRL			
Other Tests:			Comments:		





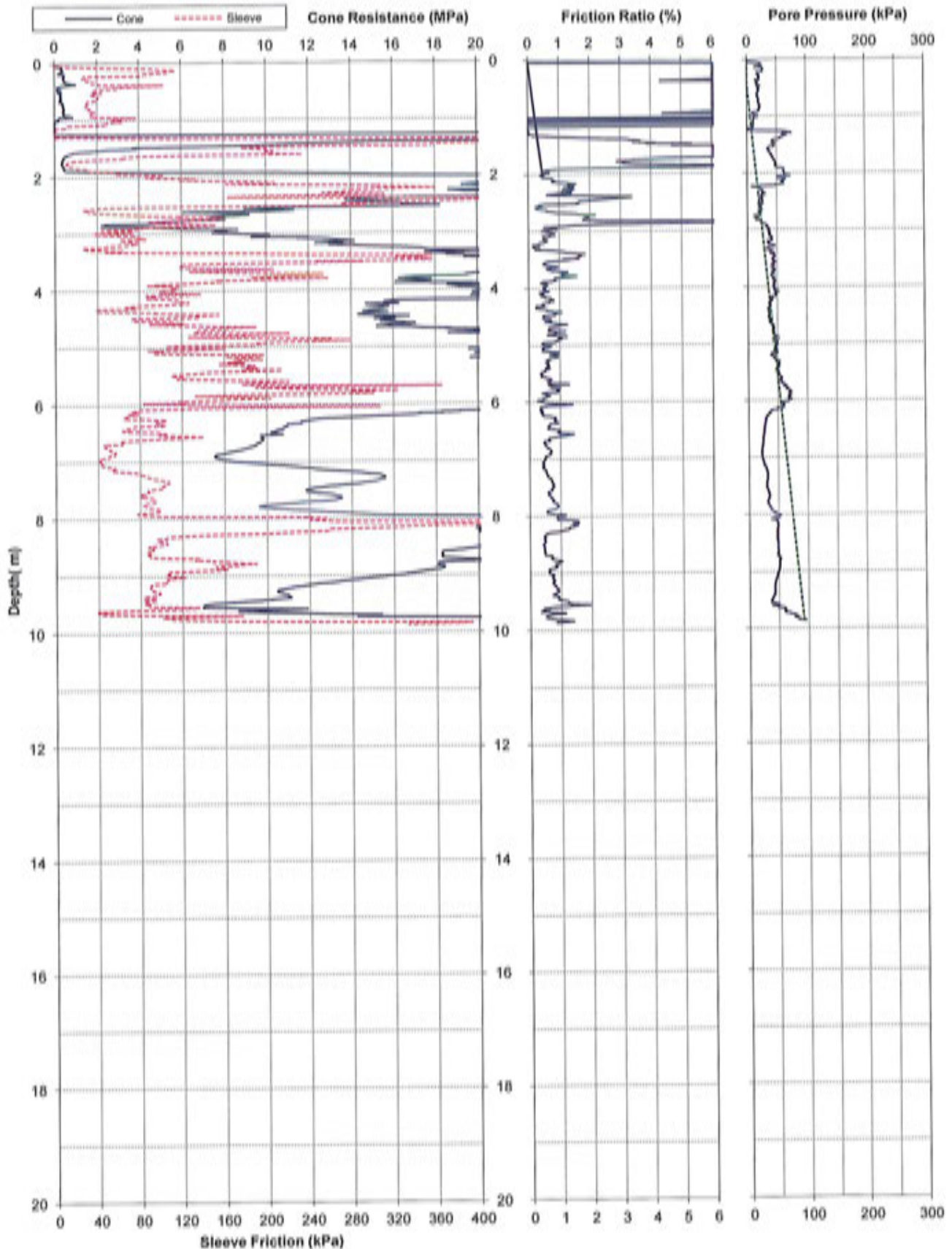
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z1-9	
Test Date: 21-Jul-2011	Location: Central City	Operator: McMillan		Christchurch City Council	
Pre-Drill: 1.2m	Assumed GWL: 1mBGL	Located By: Survey GPS			
Position: 2480782.8mE 5742129mN 3.95mRL	Coord. System: NZMG & MSL				
Other Tests:			Comments:		





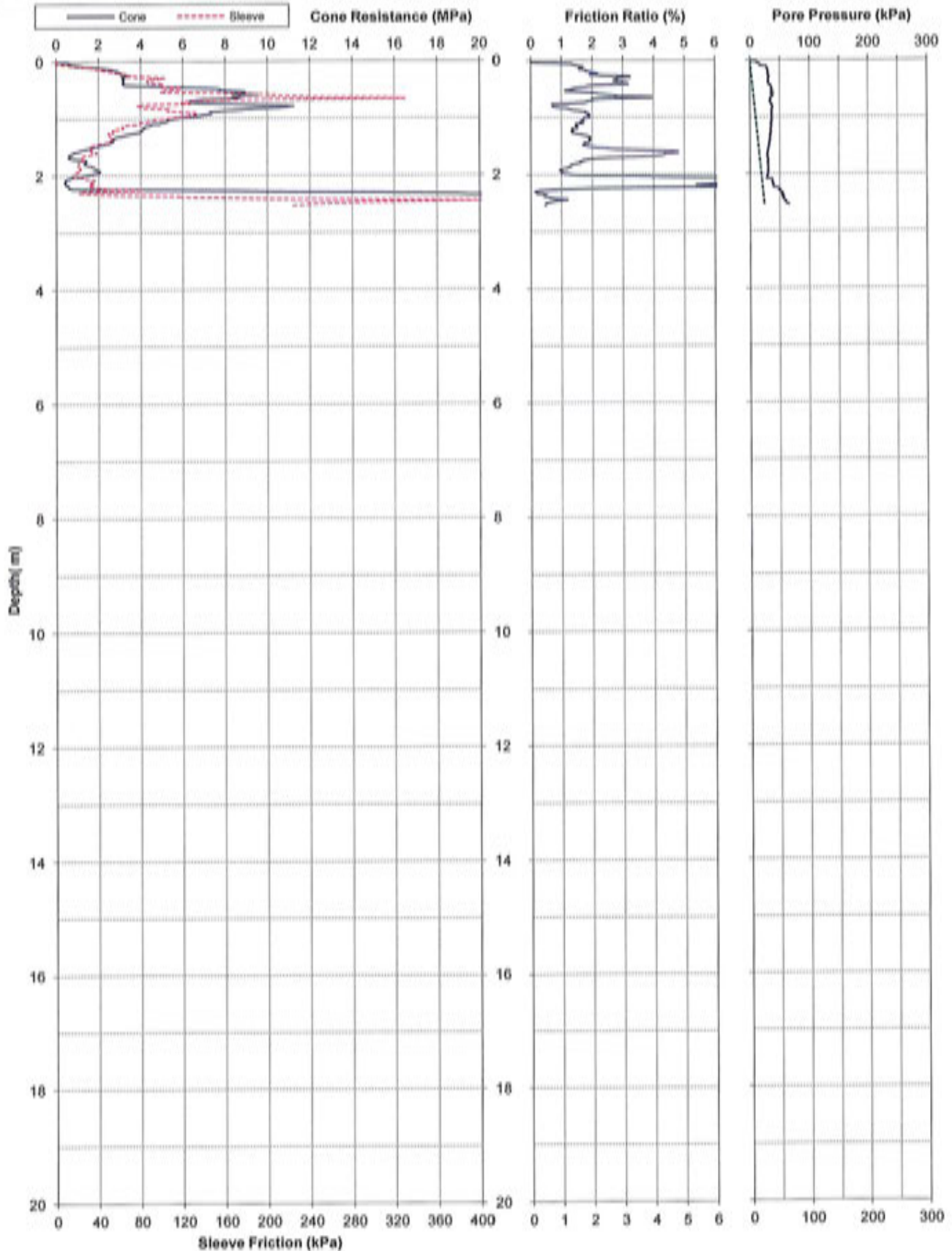
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z1-10	
Test Date: 22-Jul-2011	Location: Central City	Operator: McMillan	 		
Pre-Drill: 1.2m	Assumed GWL: 1.1mBGL	Located By: Survey GPS			
Position: 2480781.9mE	5742187mN	6.43mRL			
Other Tests:			Comments:		





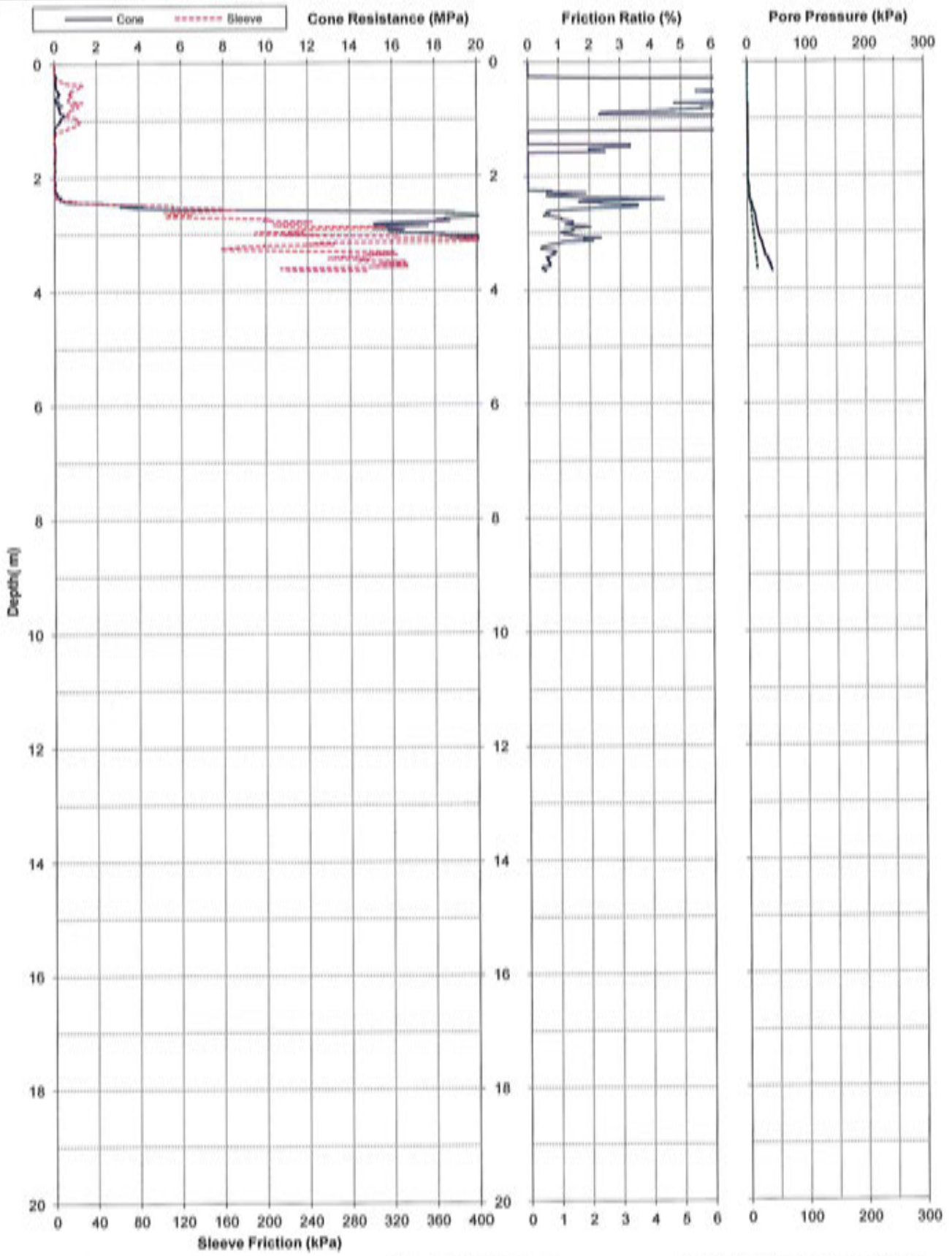
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z2-1	
Test Date: 20-Jul-2011	Location: Central City	Operator: McMillan		 	
Pre-Drill: 1.2m	Assumed GWL: 0.4mBGL	Located By: Survey GPS			
Position: 2480502.6mE	5741987.3mN	9.86mRL			Coord. System: NZMG & MSL
Other Tests:			Comments:		





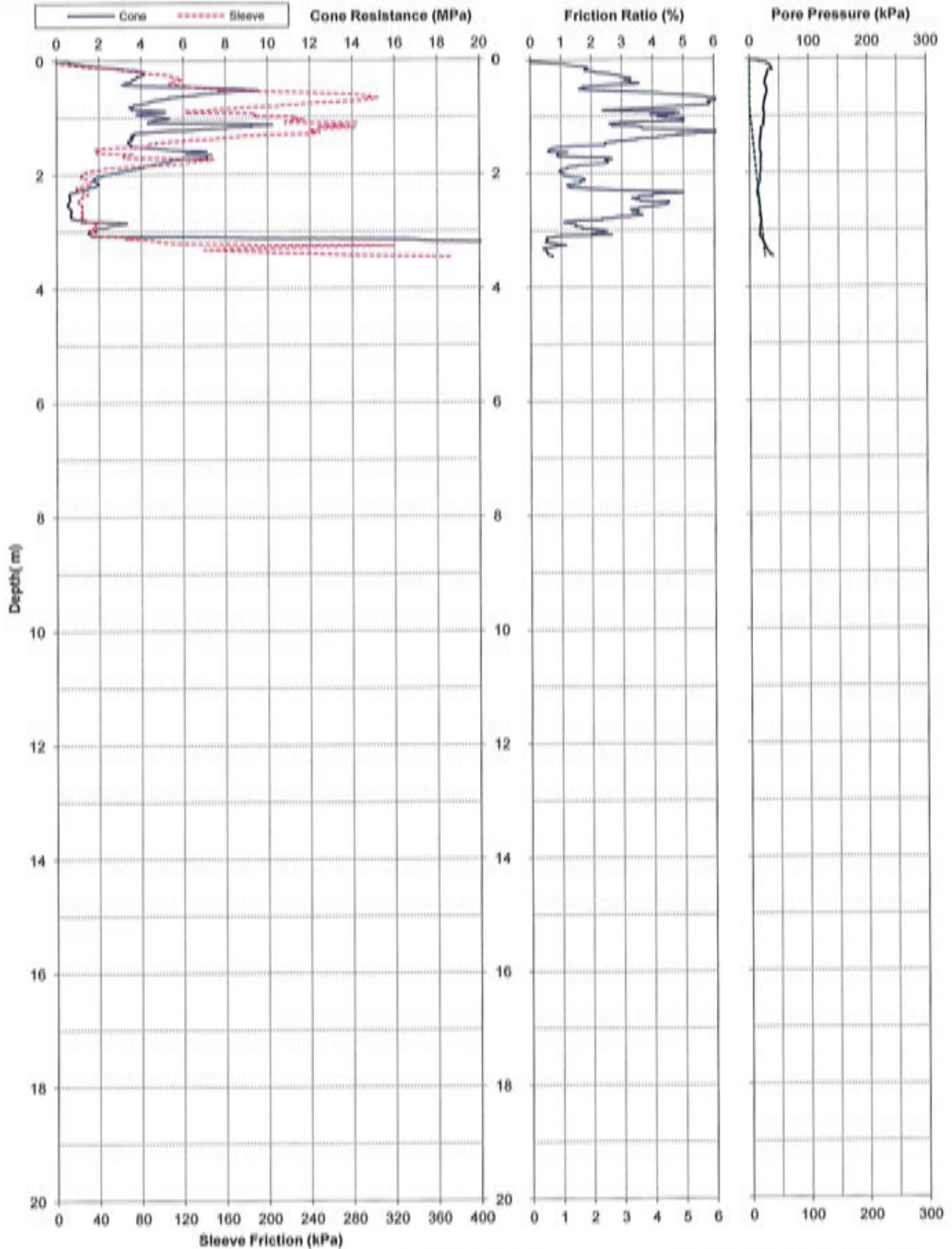
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z2-2a	
Test Date: 20-Jul-2011	Location: Central City	Operator: McMillan	 		
Pre-Drill: 1.2m	Assumed GWL: 0mBGL	Located By: Survey GPS			
Position: 2480513.3mE 5742033.3mN 2.53mRL	Coord. System: NZMG & MSL				
Other Tests:		Comments:			





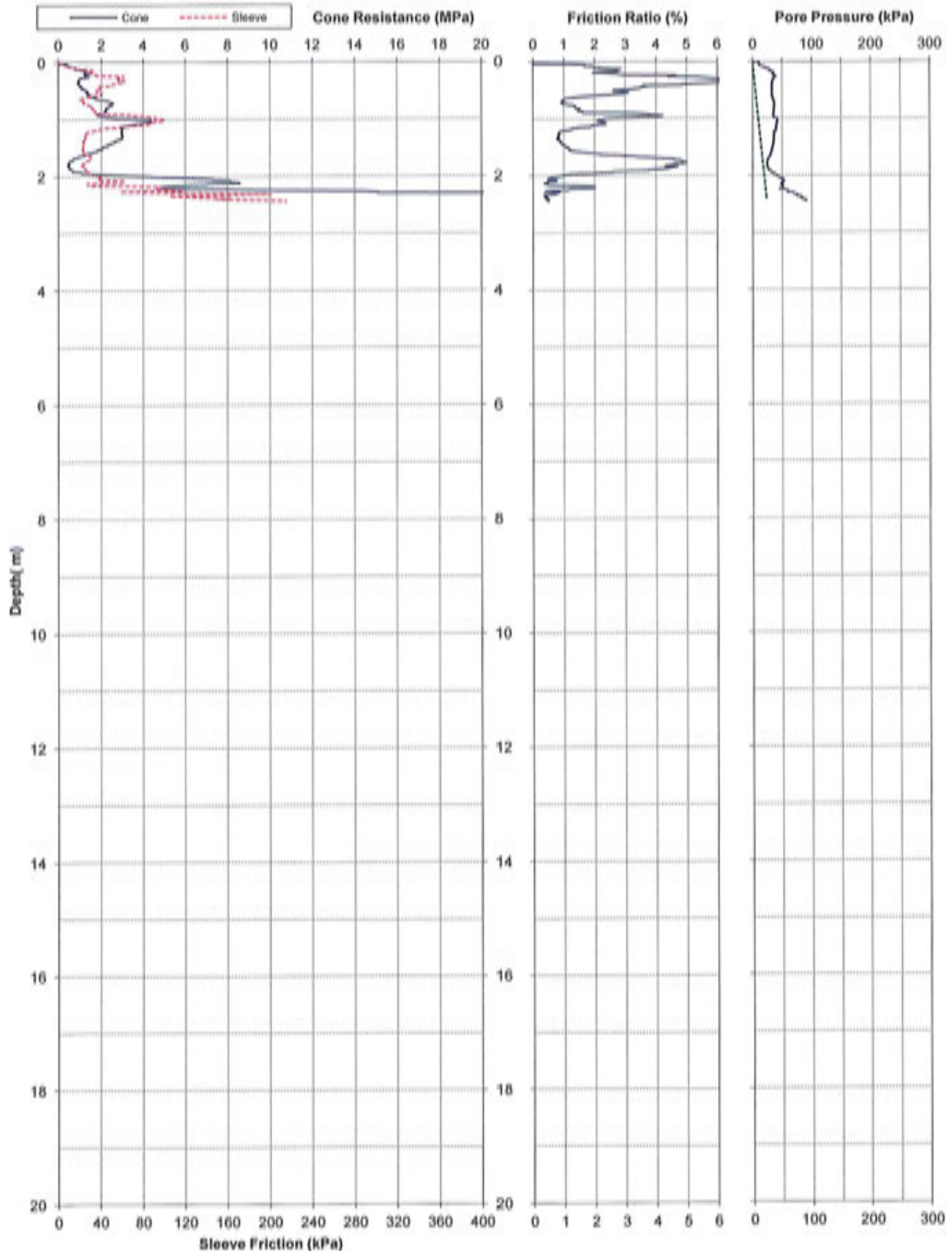
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z2-2b	
Test Date: 20-Jul-2011	Location: Central City	Operator: McMillan	 		
Pre-Drill: 1.2m	Assumed GWL: 1.9mBGL	Located By: Survey GPS			
Position: 2480513.3mE 5742033.3mN 2.53mRL	Coord. System: NZMG & MSL				
Other Tests:		Comments:			





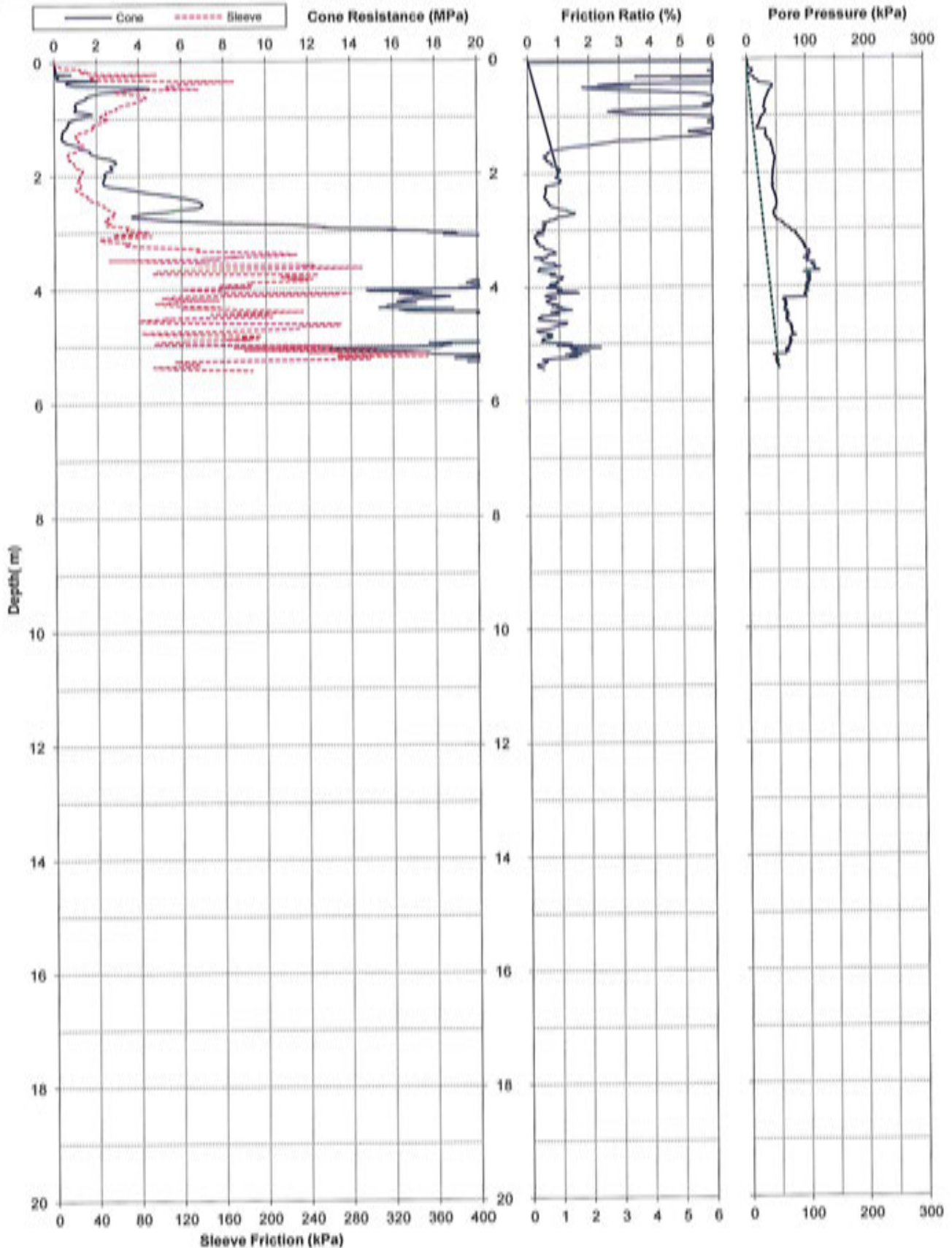
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1		CPT-CBD-Z2-4		
Test Date: 20-Jul-2011	Location: Central City	Operator: McMillan	 				
Pre-Drill: 1.2m	Assumed GWL: 0.8mBGL	Located By: Survey GPS					
Position: 2480554.3mE	5742051.3mN	3.46mRL					Coord. System: NZMG & MSL
Other Tests:							Comments:





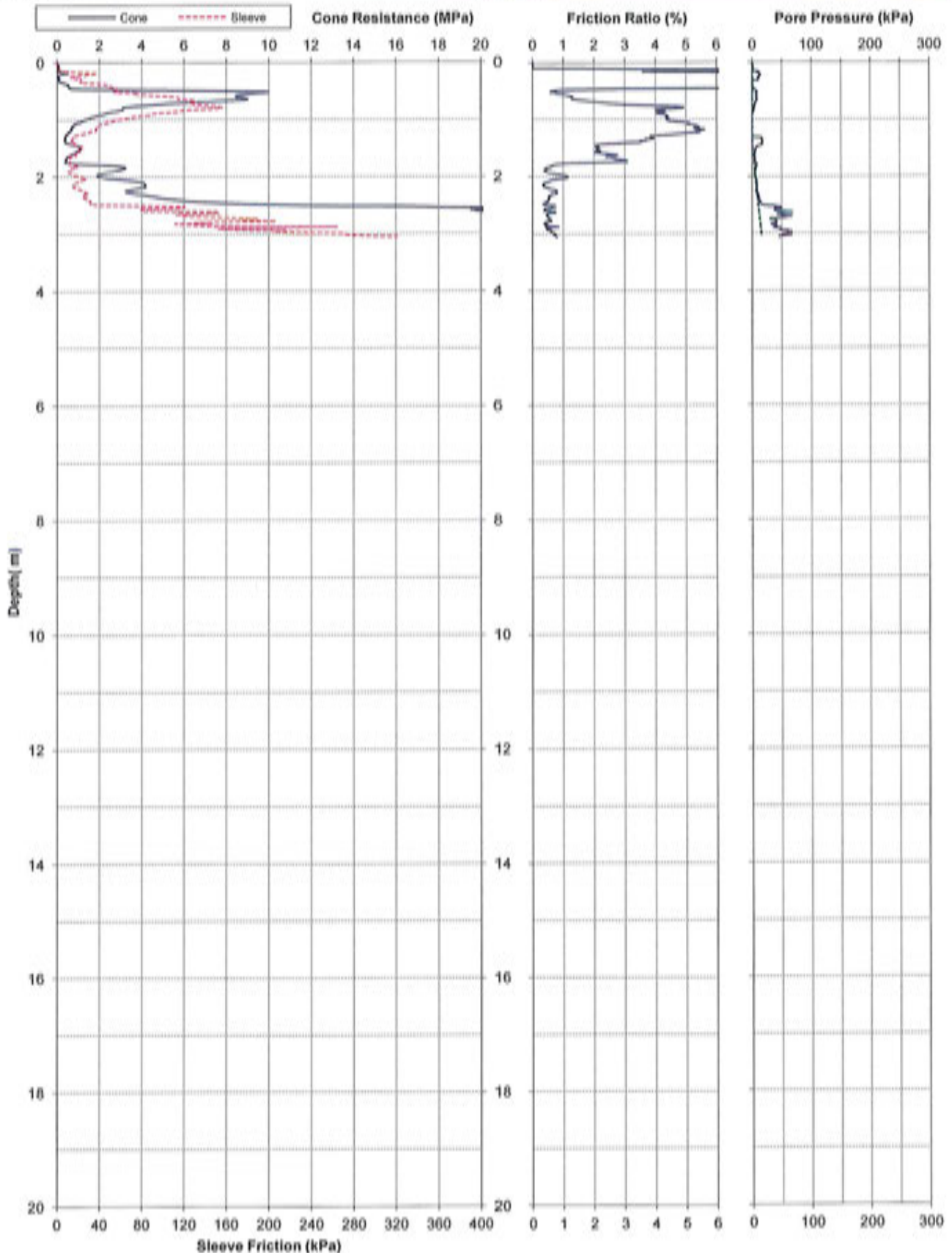
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z2-5	
Test Date: 20-Jul-2011	Location: Central City	Operator: McMillan		 	
Pre-Drill: 1.2m	Assumed GWL: 0mBGL	Located By: Survey GPS			
Position: 2480620.5mE	5742106.4mN	2.44mRL		Coord. System: NZMG & MSL	
Other Tests:			Comments:		





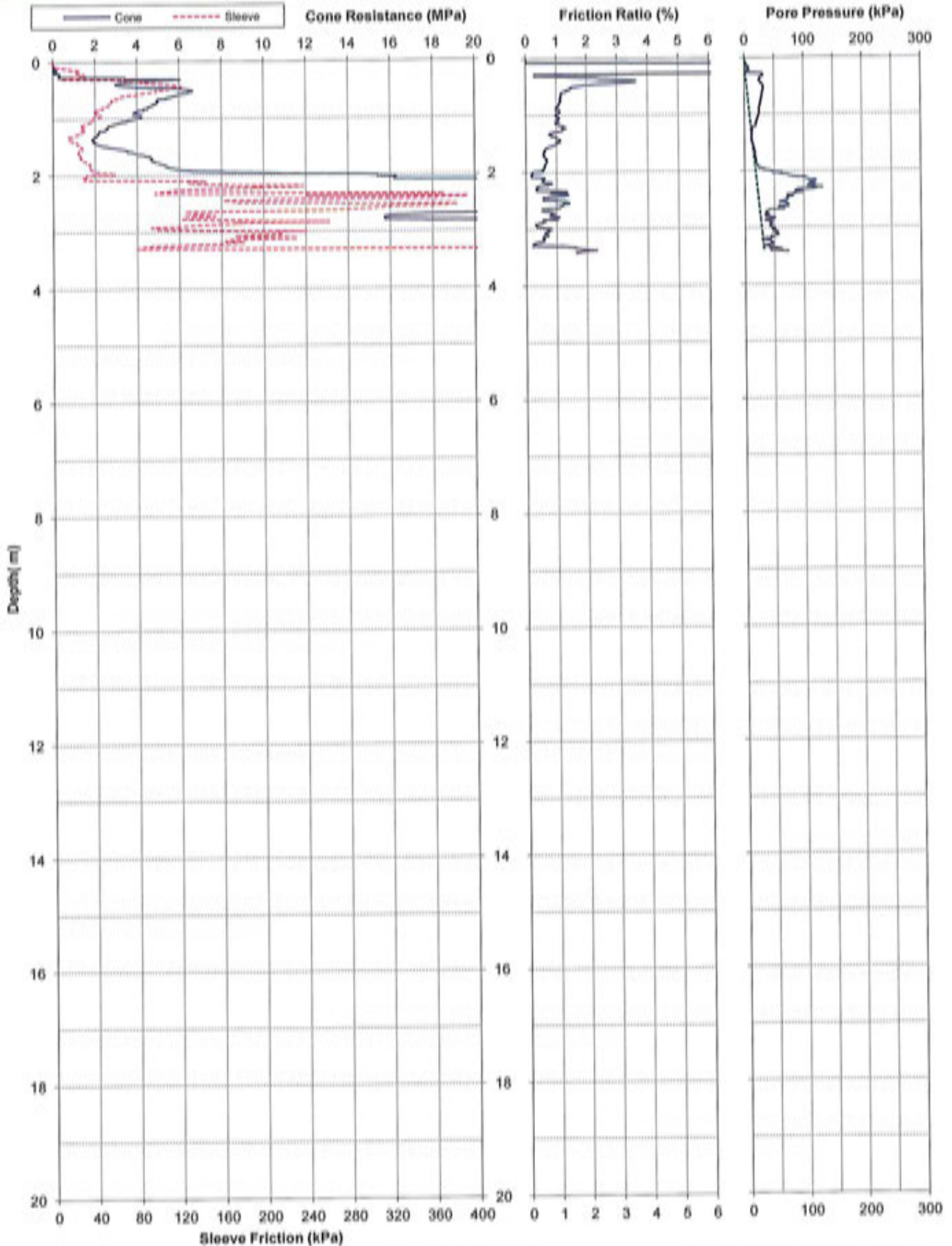
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z2-6	
Test Date: 20-Jul-2011	Location: Central City	Operator: McMillan	 		
Pre-Drill: 1.2m	Assumed GWL: 0.1mBGL	Located By: Survey GPS			
Position: 2480664.6mE 5742128.1mN 5.43mRL	Coord. System: NZMG & MSL	Comments:			
Other Tests:					





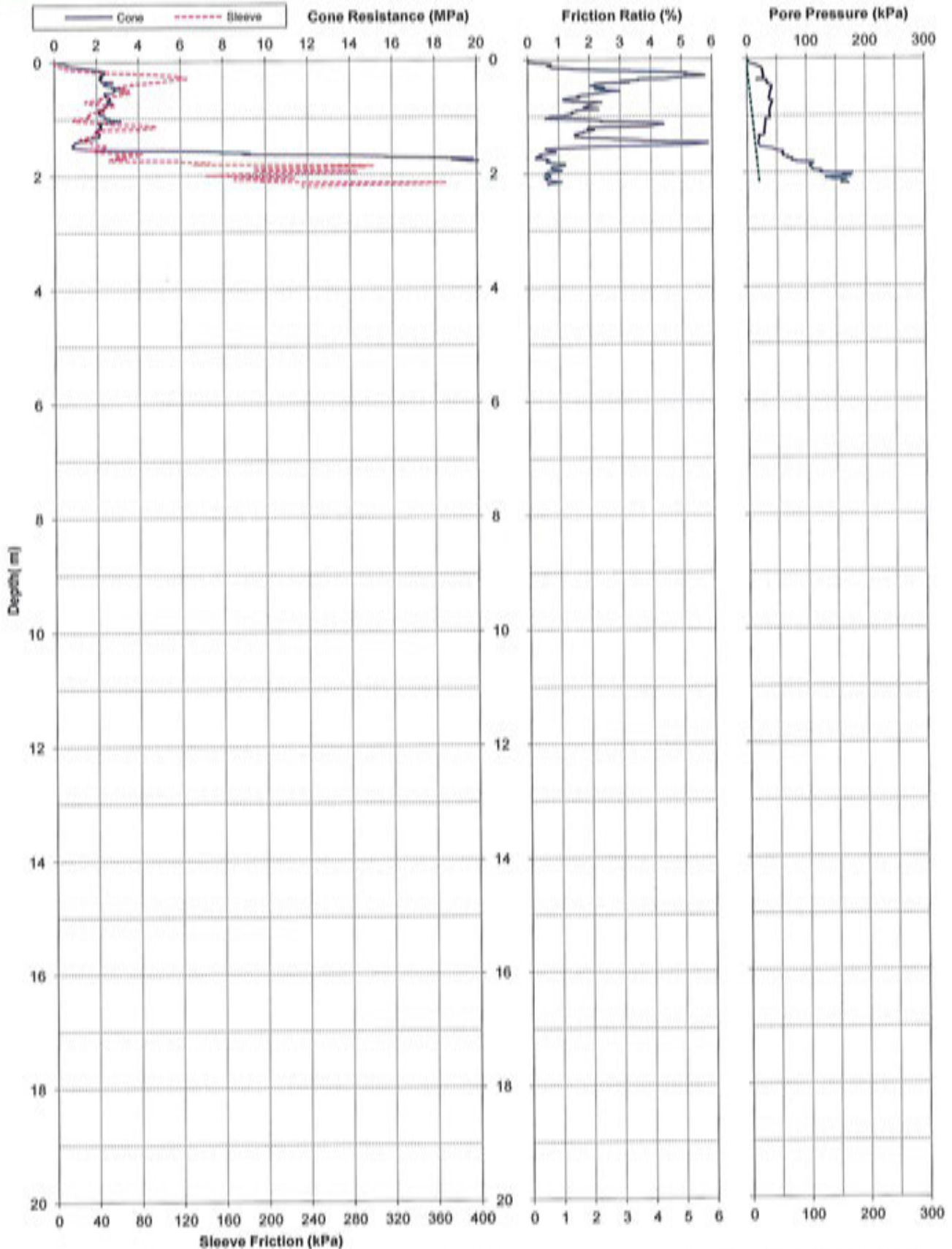
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z2-7	
Test Date: 20-Jul-2011	Location: Central City	Operator: McMillan	 		
Pre-Drill: 1.2m	Assumed GWL: 1.4mBGL	Located By: Survey GPS			
Position: 2480710.9mE	5742113.9mN	3.05mRL	Coord. System: NZMG & MSL		
Other Tests:			Comments:		





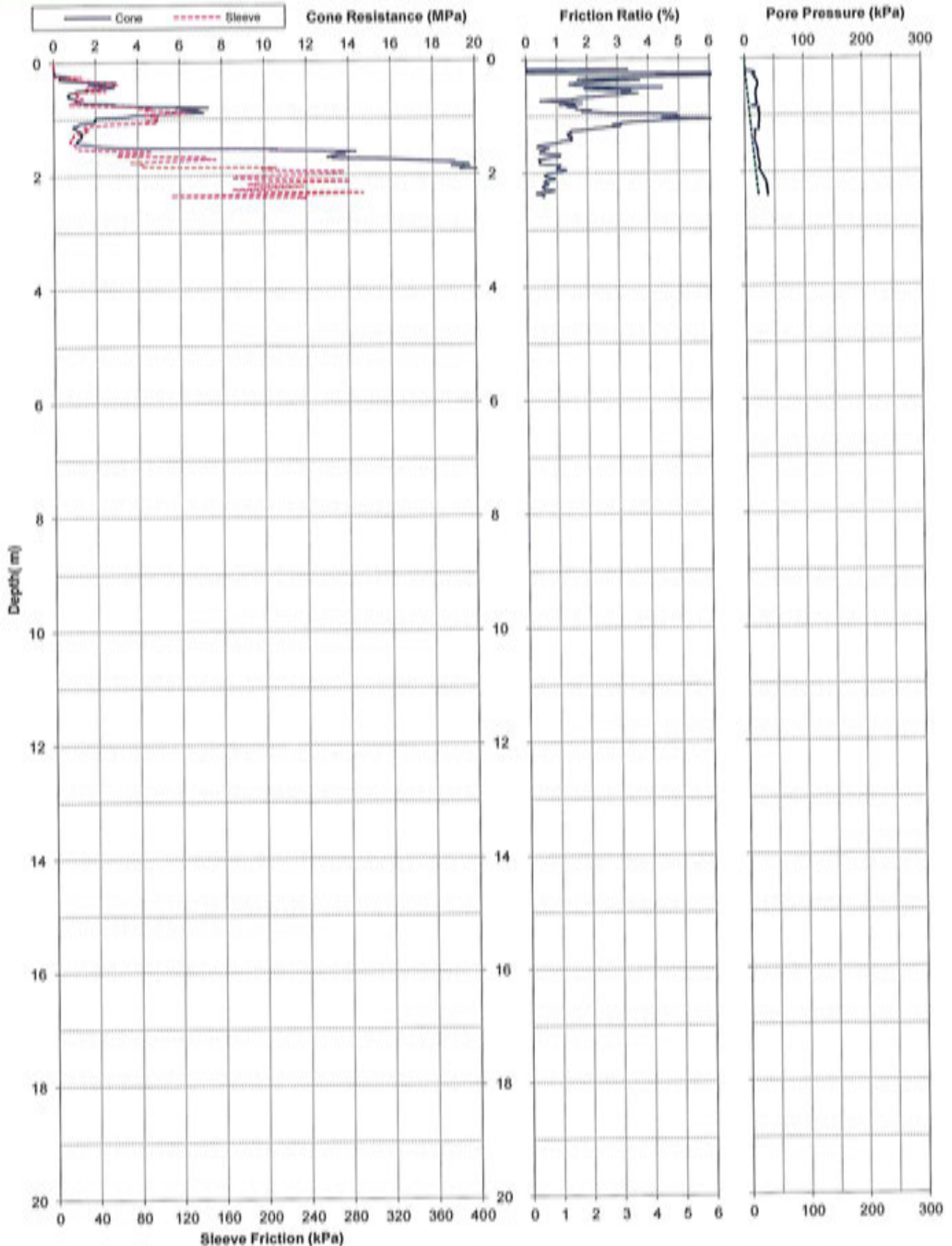
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z2-8	
Test Date: 20-Jul-2011	Location: Central City	Operator: McMillan		 	
Pre-Drill: 1.2m	Assumed GWL: 0.1mBGL	Located By: Survey GPS			
Position: 2480741.8mE	5742079.2mN	Coord. System: NZMG & MSL			
Other Tests:			Comments:		





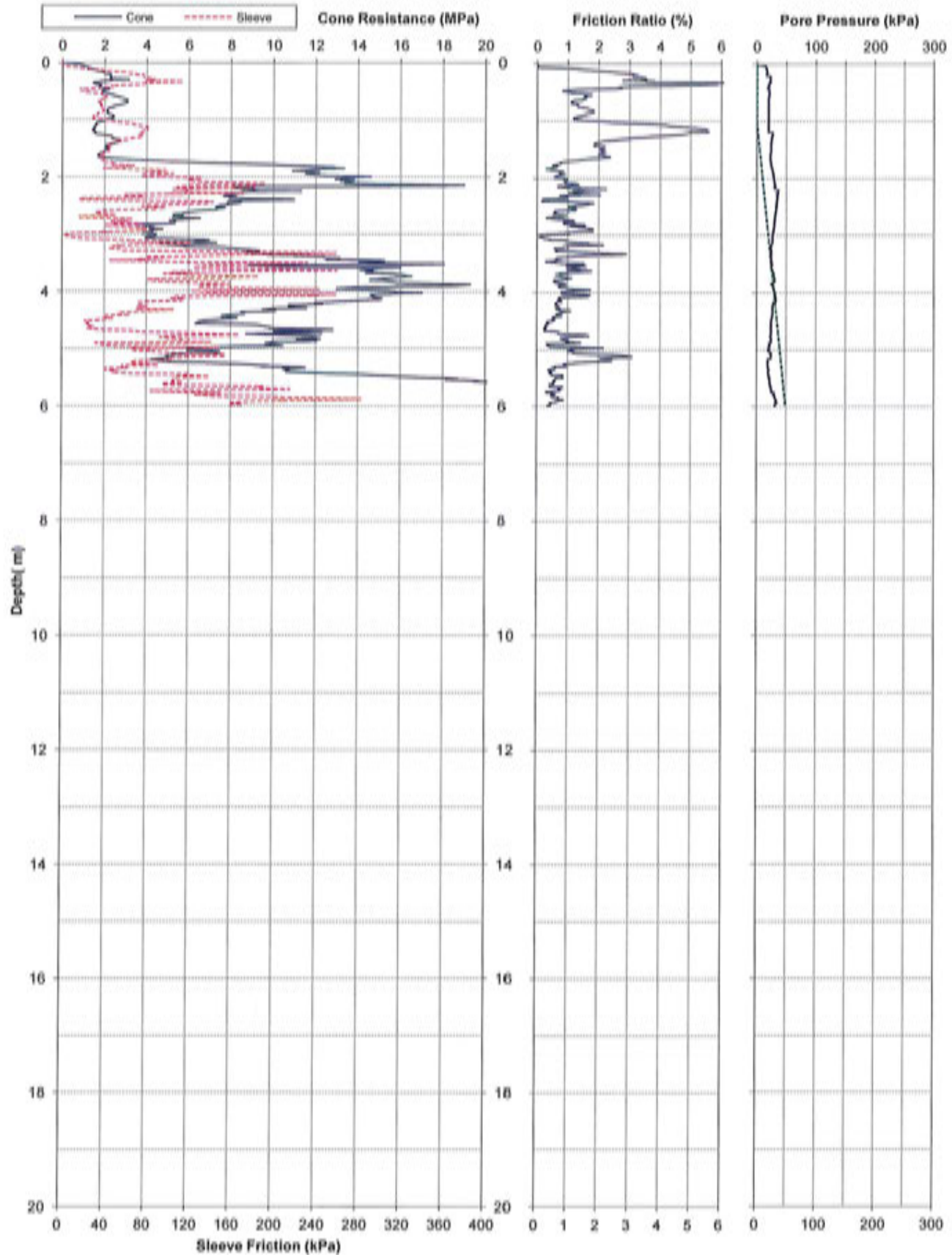
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z2-9	
Test Date: 20-Jul-2011	Location: Central City	Operator: McMillan		 	
Pre-Drill: 1.2m	Assumed GWL: 0.1mBGL	Located By: Survey GPS			
Position: 2480568.7mE	5742020.6mN	Coord. System: NZMG & MSL			
Other Tests:			Comments:		





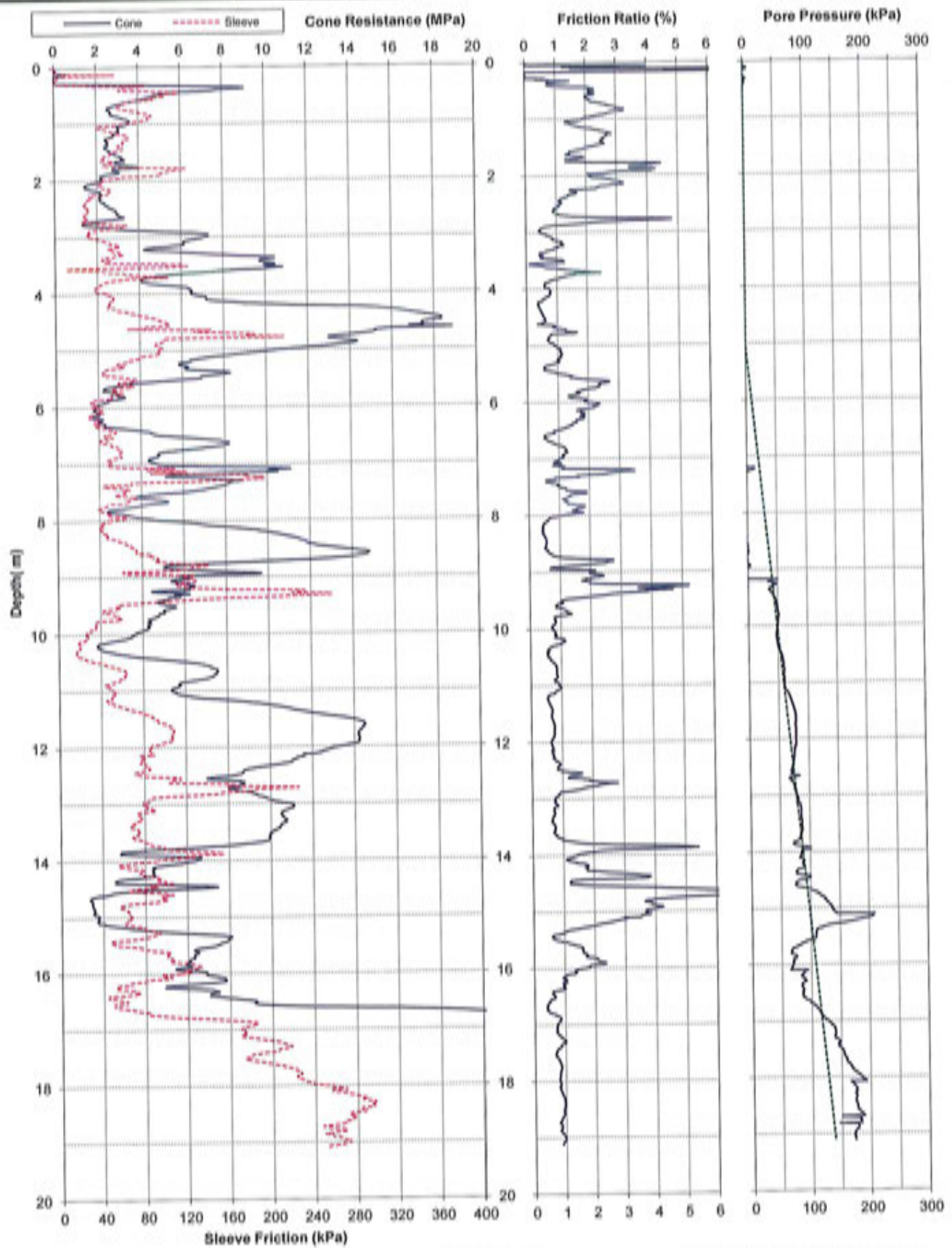
Project: Christchurch 2011 Earthquake - CCC Ground Investigations				Page: 1 of 1	CPT-CBD-Z2-10	
Test Date: 20-Jul-2011		Location: Central City		Operator: McMillan		 
Pre-Drill: 1.2m		Assumed GWL: 0.1mBGL		Located By: Survey GPS		
Position: 2480613.8mE		5742023.1mN		2.41mRL		
Other Tests:				Coord. System: NZMG & MSL		
				Comments:		





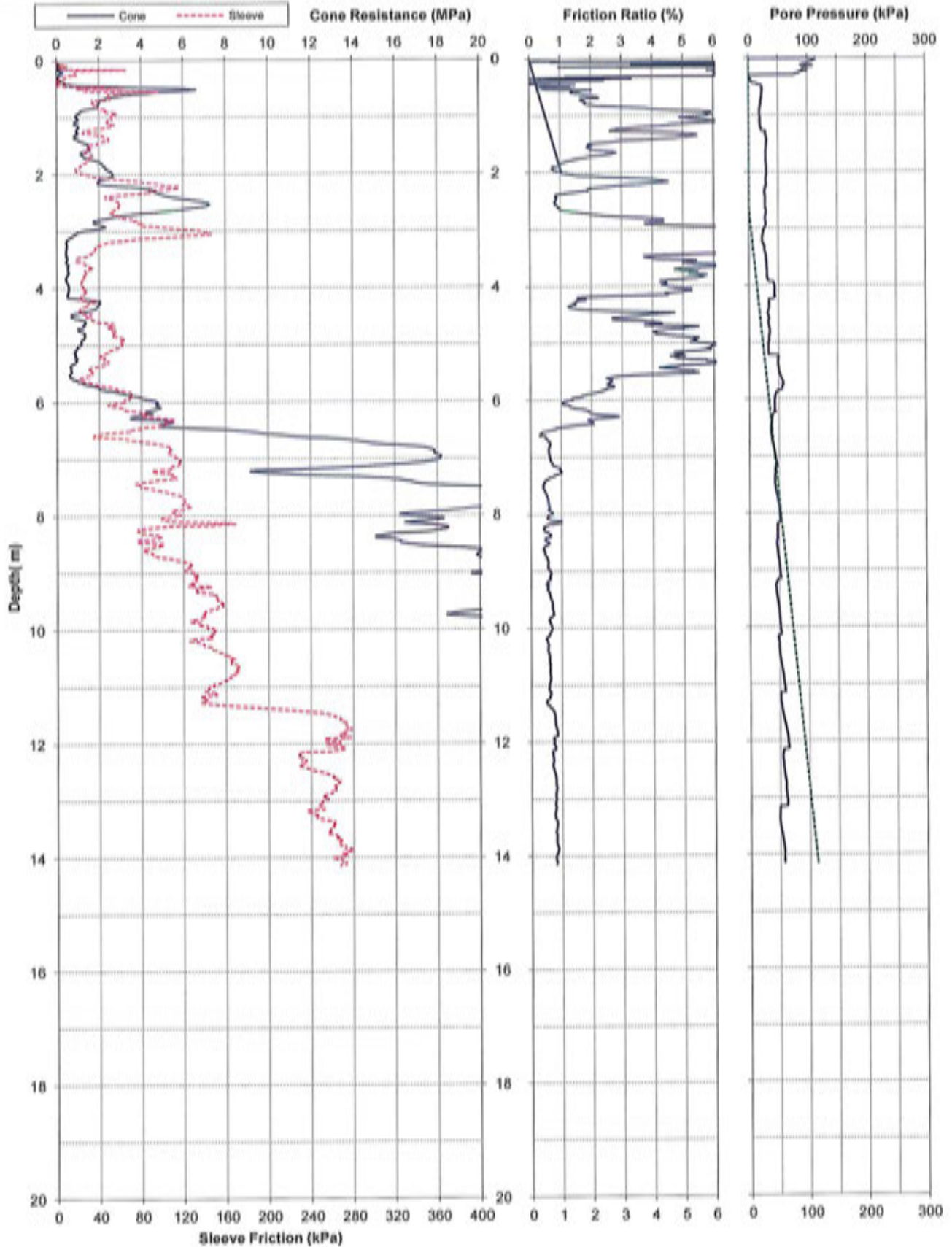
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z2-11	
Test Date: 20-Jul-2011	Location: Central City	Operator: McMillan	Christchurch City Council  		
Pre-Drill: 1.2m	Assumed GWL: 1mBGL	Located By: Survey GPS			
Position: 2480623.6mE 5742072.5mN 5.98mRL	Coord. System: NZMG & MSL				
Other Tests:			Comments:		





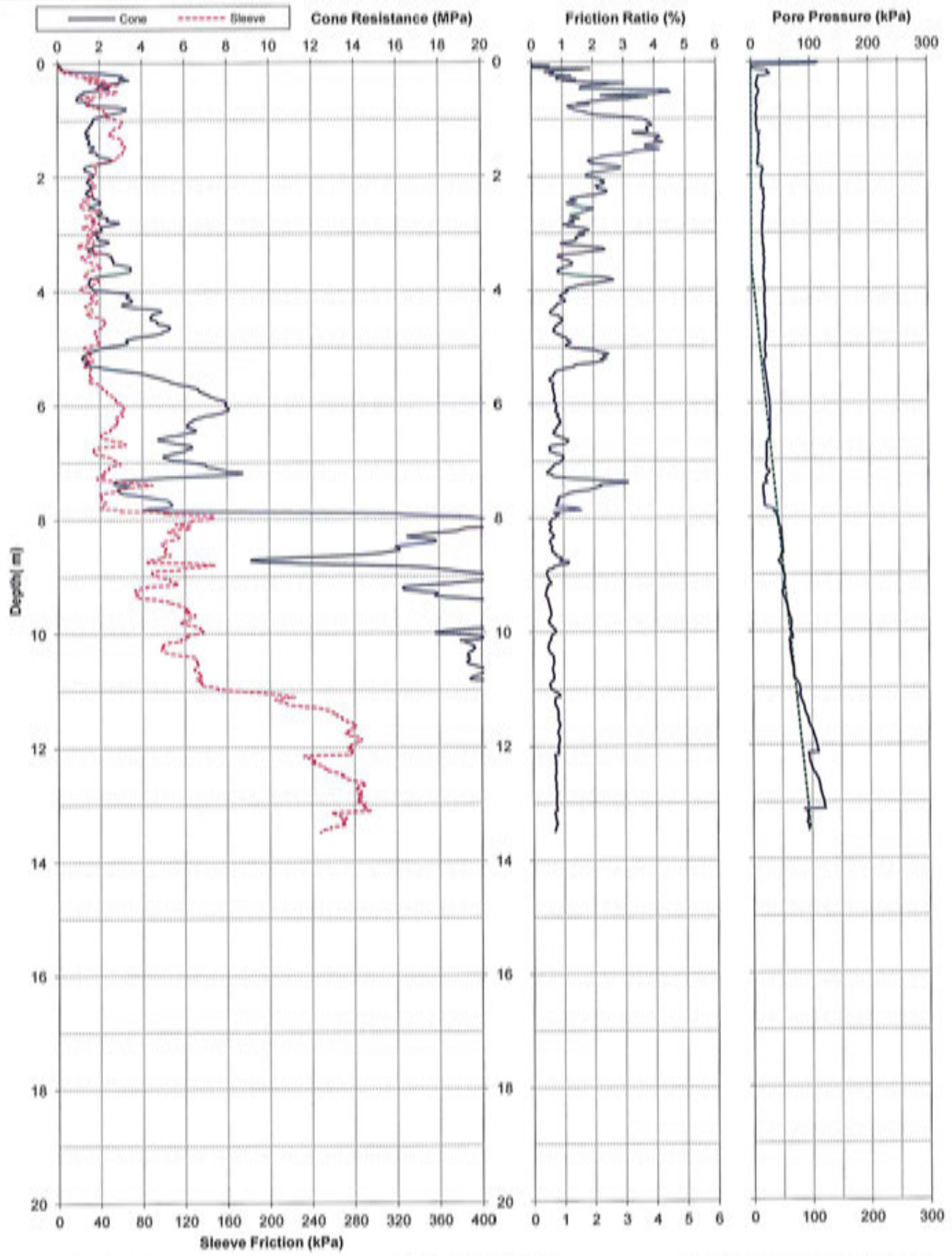
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z4-1	
Test Date: 26-Jul-2011	Location: Central City	Operator: McMillan		 	
Pre-Drill: 1.2m	Assumed GWL: 5mBGL	Located By: Survey GPS			
Position: 2481189.4mE	5742019.5mN	Coord. System: NZMG & MSL			
Other Tests:			Comments:		





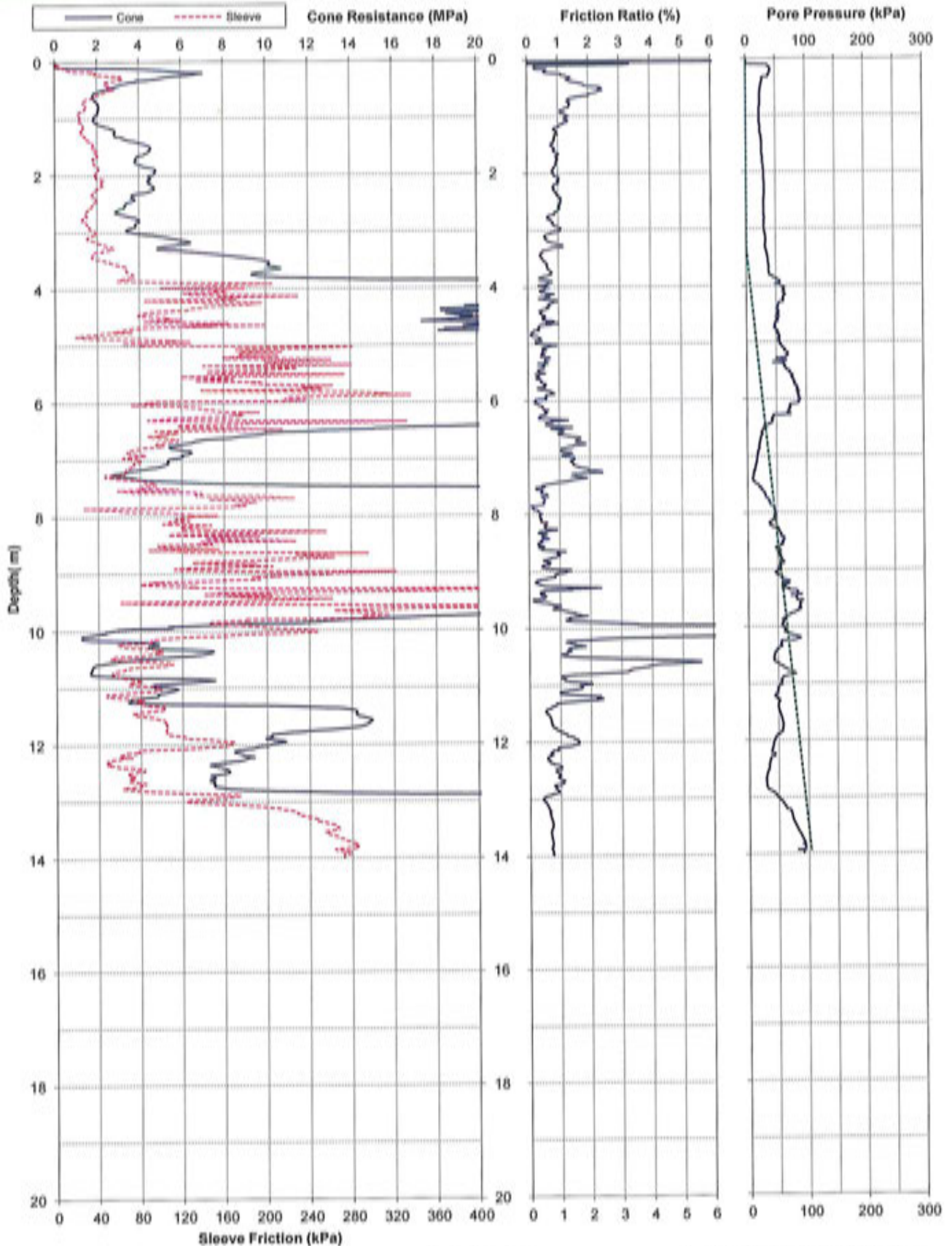
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z4-2	
Test Date: 29-Jul-2011	Location: Central City	Operator: McMillan	 		
Pre-Drill: 1.2m	Assumed GWL: 2.6mBGL	Located By: Survey GPS			
Position: 2481117.9mE	5741988.5mN	14.14mRL			
Other Tests:			Comments:		





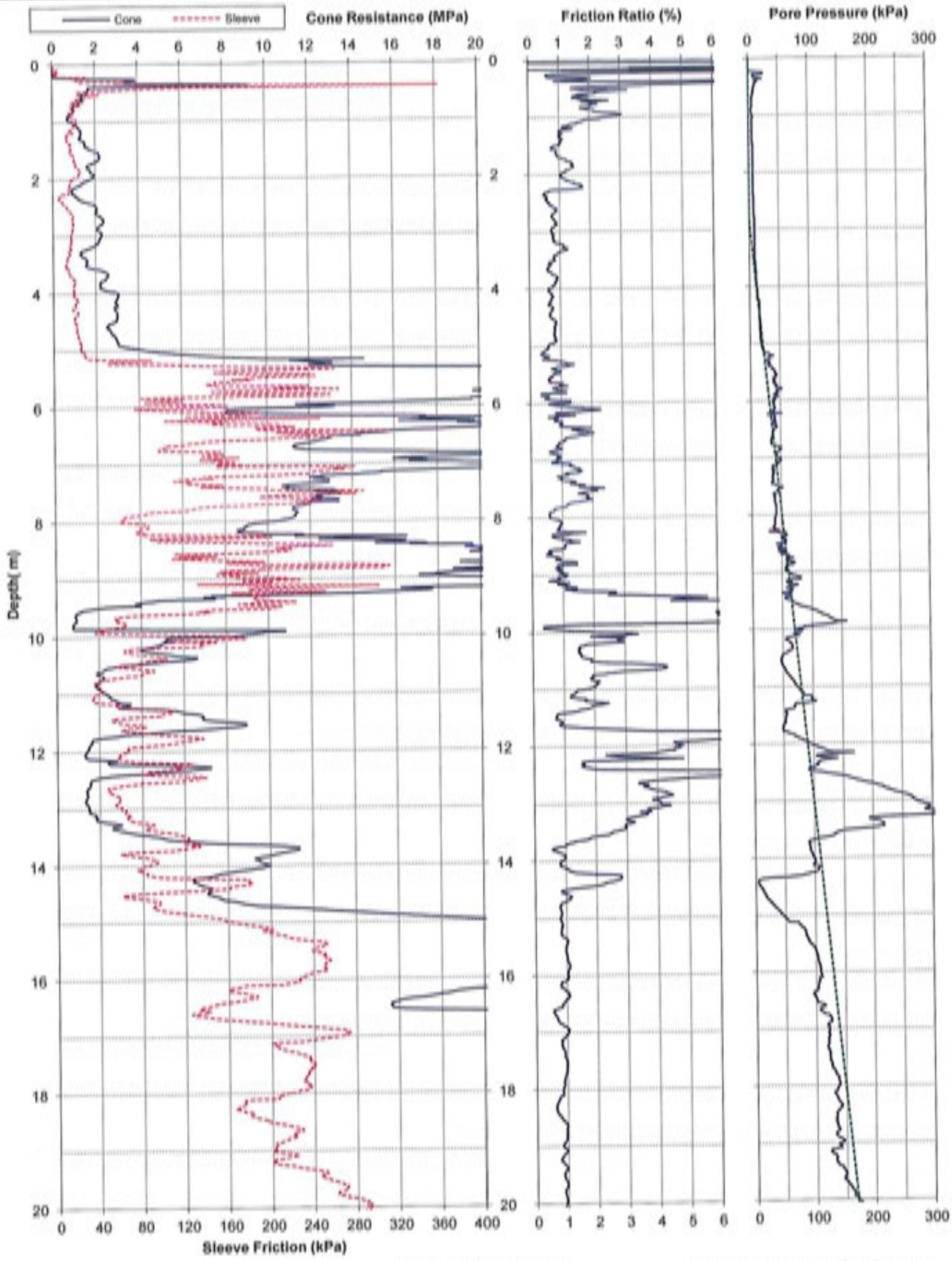
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z4-3	
Test Date: 27-Jul-2011	Location: Central City	Operator: McMillan	 		
Pre-Drill: 1.2m	Assumed GWL: 3.5mBGL	Located By: Survey GPS			
Position: 2481110.8mE	5742000.2mN	13.49mRL			
Other Tests:		Coord. System: NZMG & MSL			
			Comments:		





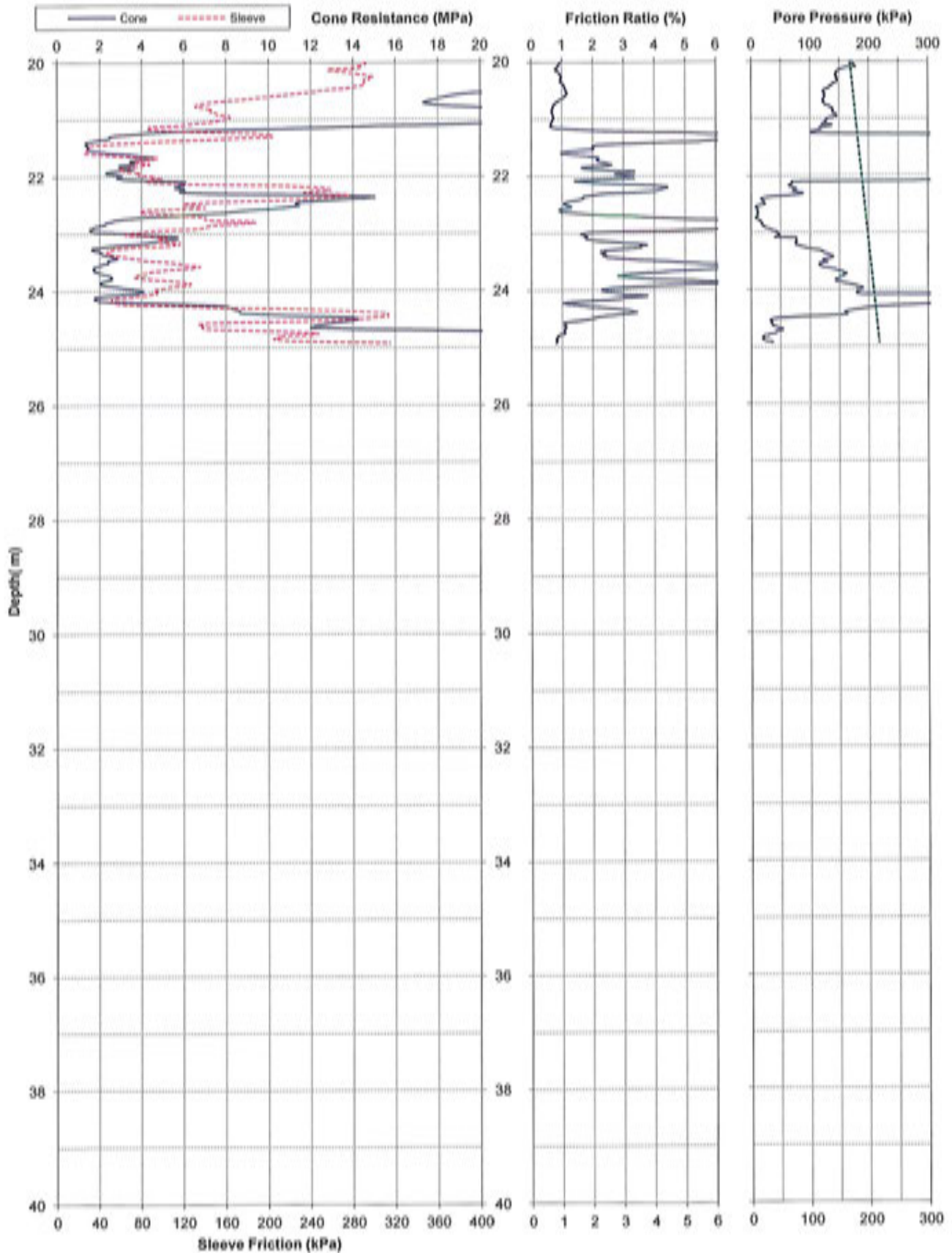
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z4-4	
Test Date: 27-Jul-2011	Location: Central City	Operator: McMillan	 		
Pre-Drill: 1.2m	Assumed GWL: 3.3mBGL	Located By: Survey GPS			
Position: 2481104.7mE 5742024.3mN 13.98mRL	Coord. System: NZMG & MSL				
Other Tests:		Comments:			





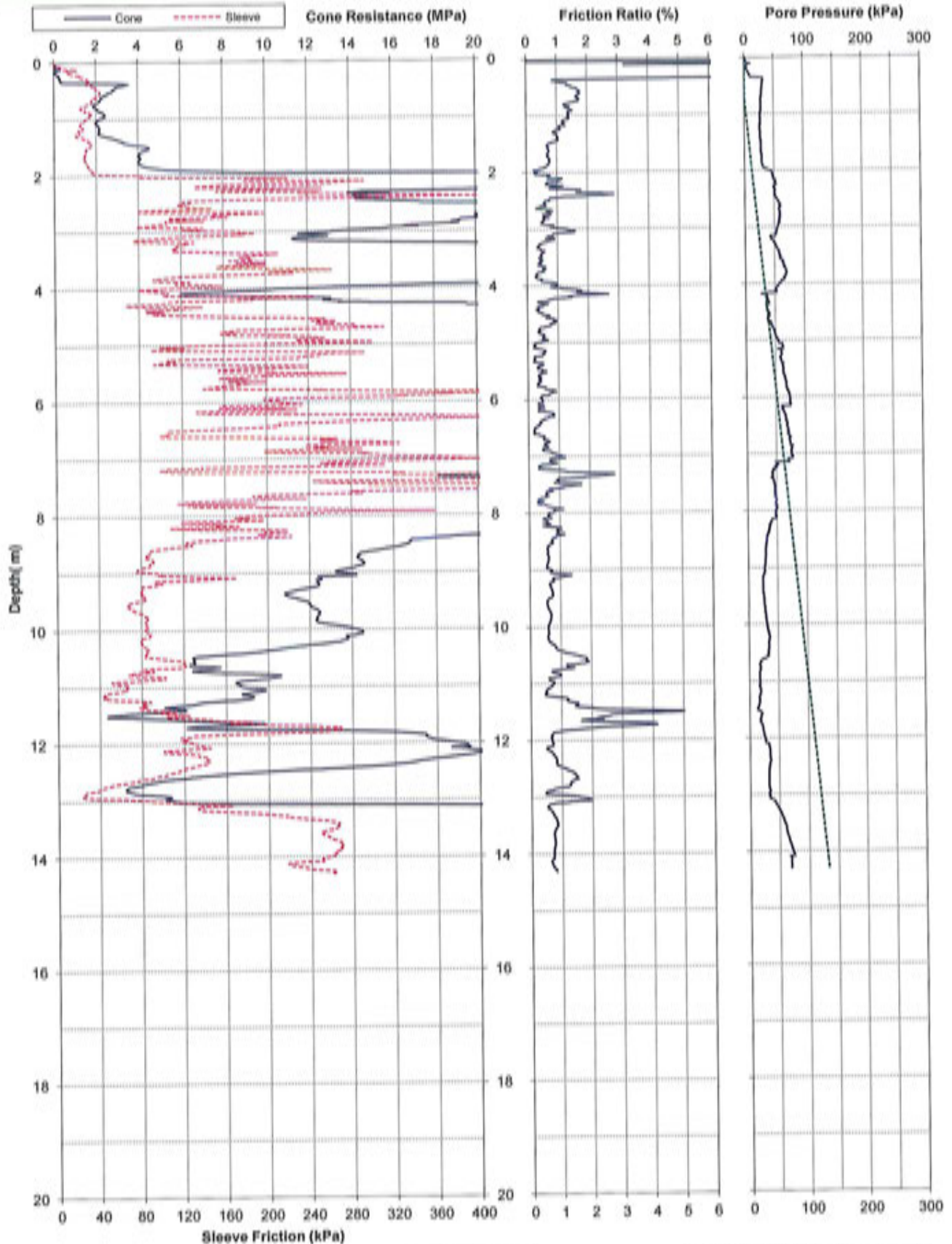
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 2	CPT-CBD-Z4-5	
Test Date: 27-Jul-2011	Location: Central City	Operator: McMillan		 	
Pre-Drill: 1.2m	Assumed GWL: 2.8mBGL	Located By: Survey GPS			
Position: 2481115.4mE 5742024.8mN 24.92mRL	Coord. System: NZMG & MSL				
Other Tests:			Comments:		





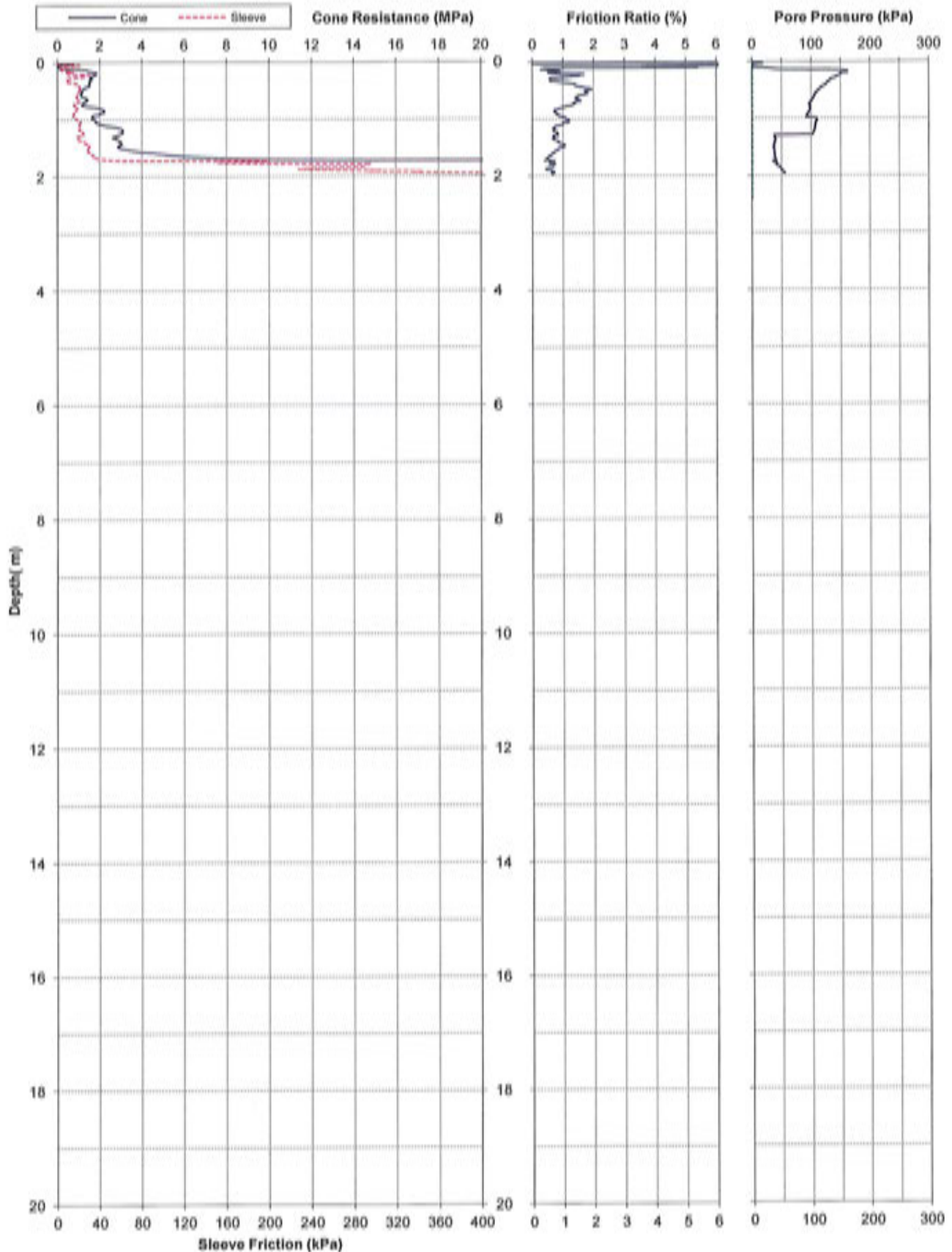
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 2 of 2	CPT-CBD-Z4-5	
Test Date: 27-Jul-2011	Location: Central City	Operator: McMillan	 		
Pre-Drill: 1.5m	Assumed GWL: 2.8mBGL	Located By: Survey GPS			
Position: 2481115.4mE	5742024.8mN	24.92mRL			
Other Tests:		Coord. System: NZMG & MSL			
			Comments:		



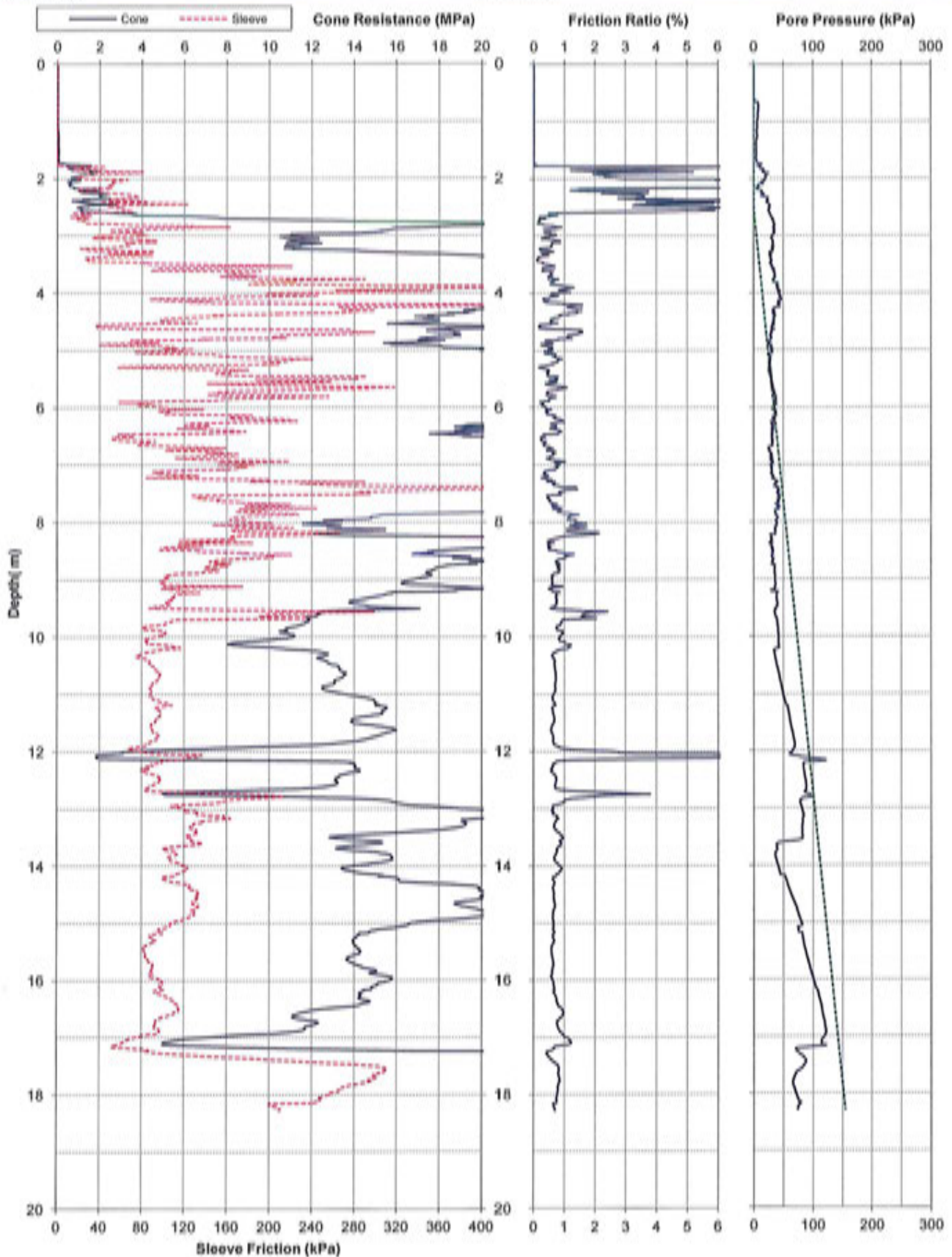
Project: Christchurch 2011 Earthquake - CCC Ground Investigations				Page: 1 of 1	CPT-CBD-Z4-6	
Test Date: 27-Jul-2011		Location: Central City		Operator: McMillan		 
Pre-Drill: 1.2m		Assumed GWL: 0.7mBGL		Located By: Survey GPS		
Position: 2481092.9mE		5742042.6mN		14.3mRL		
Other Tests:		Coord. System: NZMG & MSL				
				Comments:		





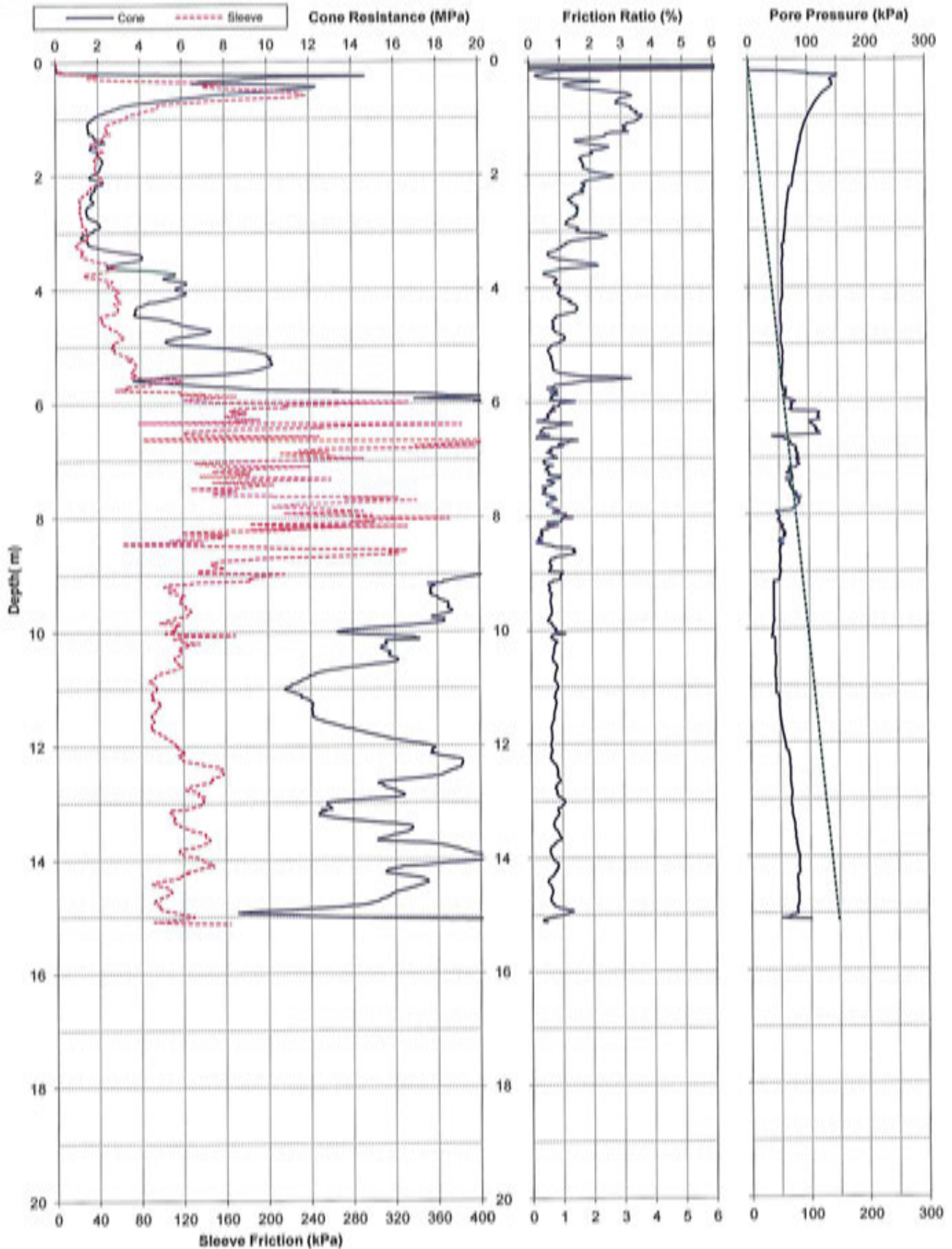
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z4-7a	
Test Date: 27-Jul-2011	Location: Central City	Operator: McMillan	 		
Pre-Drill: 1.2m	Assumed GWL: 2.4mBGL	Located By: Survey GPS			
Position: 2481117mE	5742050.1mN	18.28mRL			
Other Tests:			Comments:		





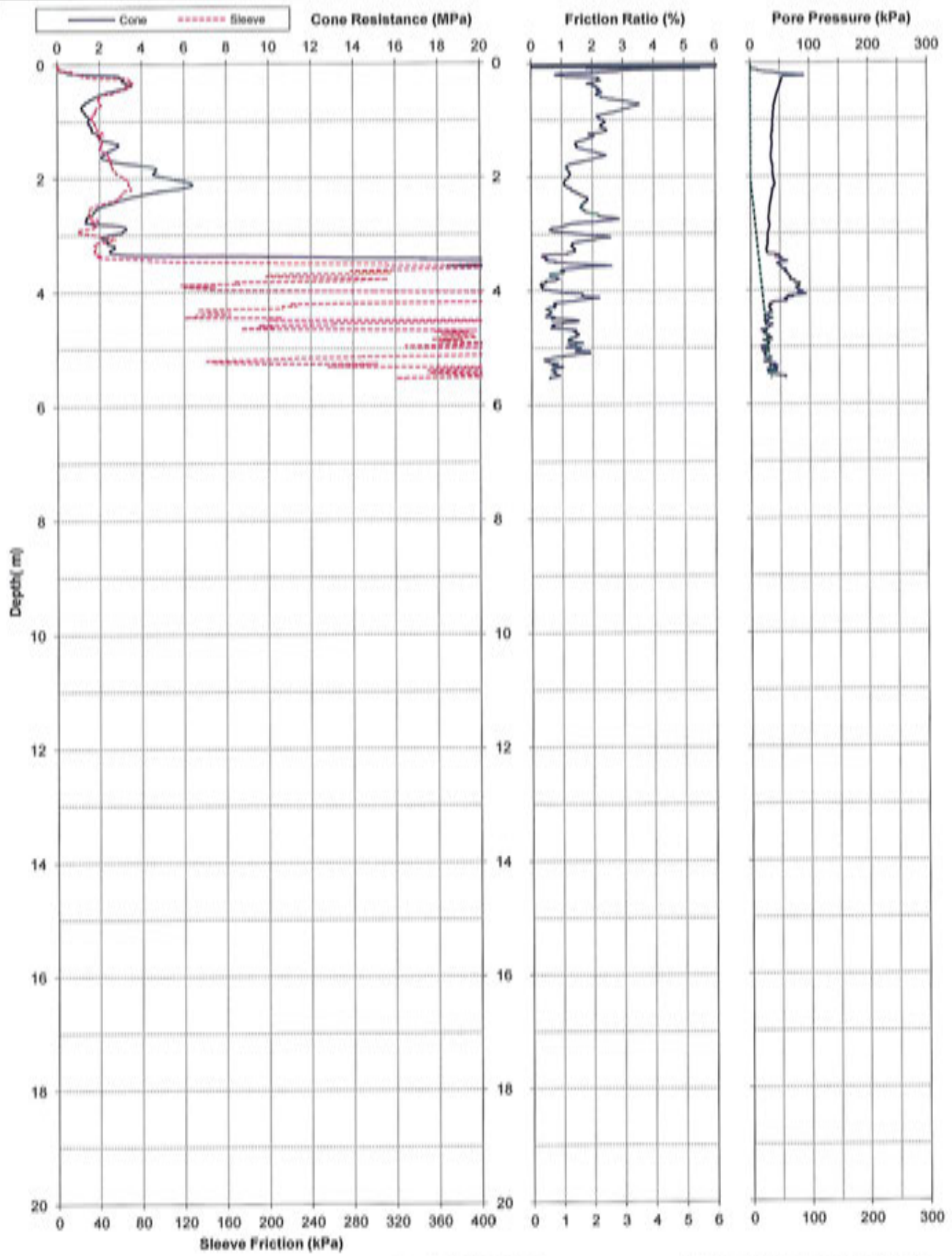
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1		CPT-CBD-Z4-7b	
Test Date:	27-Jul-2011	Location:	Central City	Operator:	McMillan	
Pre-Drill:	1.2m	Assumed GWL:	2.5mBGL	Located By:	Survey GPS	
Position:	2481117mE	5742050.1mN	18.28mRL	Coord. System:	NZMG & MSL	
Other Tests:				Comments:		





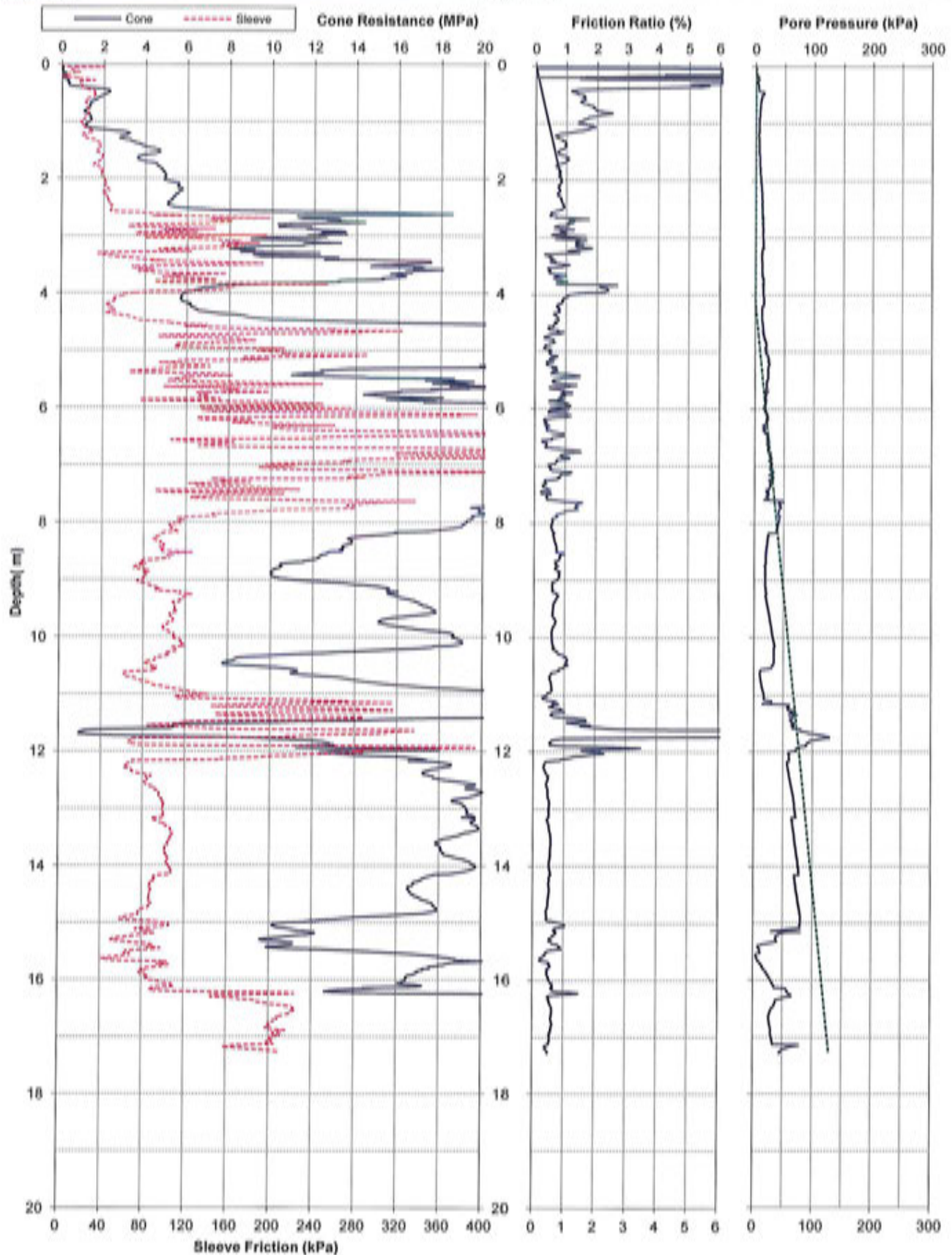
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z4-8	
Test Date: 26-Jul-2011	Location: Central City	Operator: McMillan	 		
Pre-Drill: 1.2m	Assumed GWL: 0mBGL	Located By: Survey GPS			
Position: 2481151.5mE 5742050.9mN 15.12mRL	Coord. System: NZMG & MSL				
Other Tests:		Comments:			





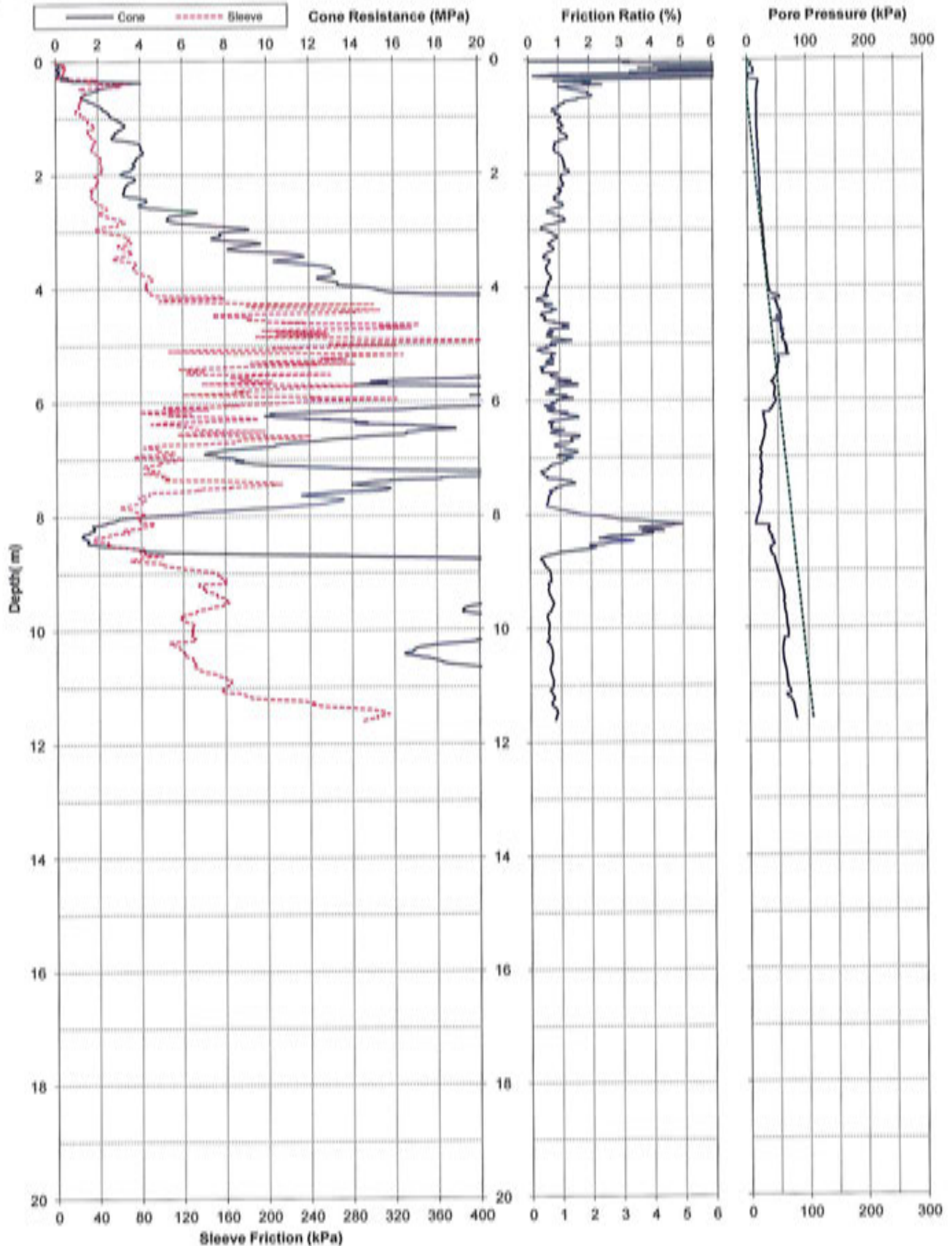
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z4-9	
Test Date: 26-Jul-2011	Location: Central City		Operator: McMillan		 
Pre-Drill: 1.2m	Assumed GWL: 2mBGL		Located By: Survey GPS		
Position: 2481139.1mE	5742073.8mN		5.53mRL		
Other Tests:			Comments:		





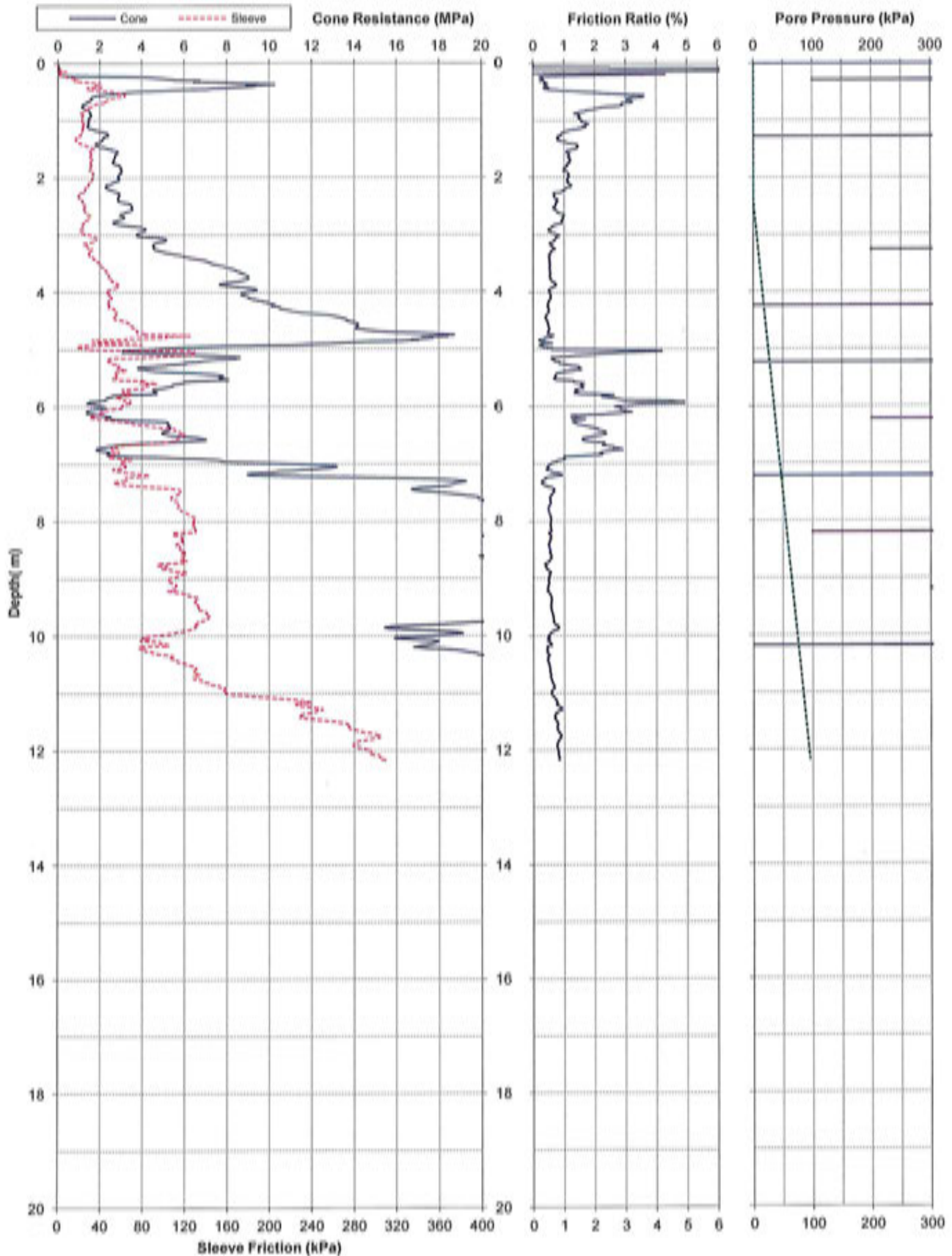
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z4-10	
Test Date: 27-Jul-2011	Location: Central City	Operator: McMillan	 		
Pre-Drill: 1.2m	Assumed GWL: 4.1mBGL	Located By: Survey GPS			
Position: 2481116.7mE	5742066.2mN	17.28mRL	Coord. System: NZMG & MSL		
Other Tests:			Comments:		





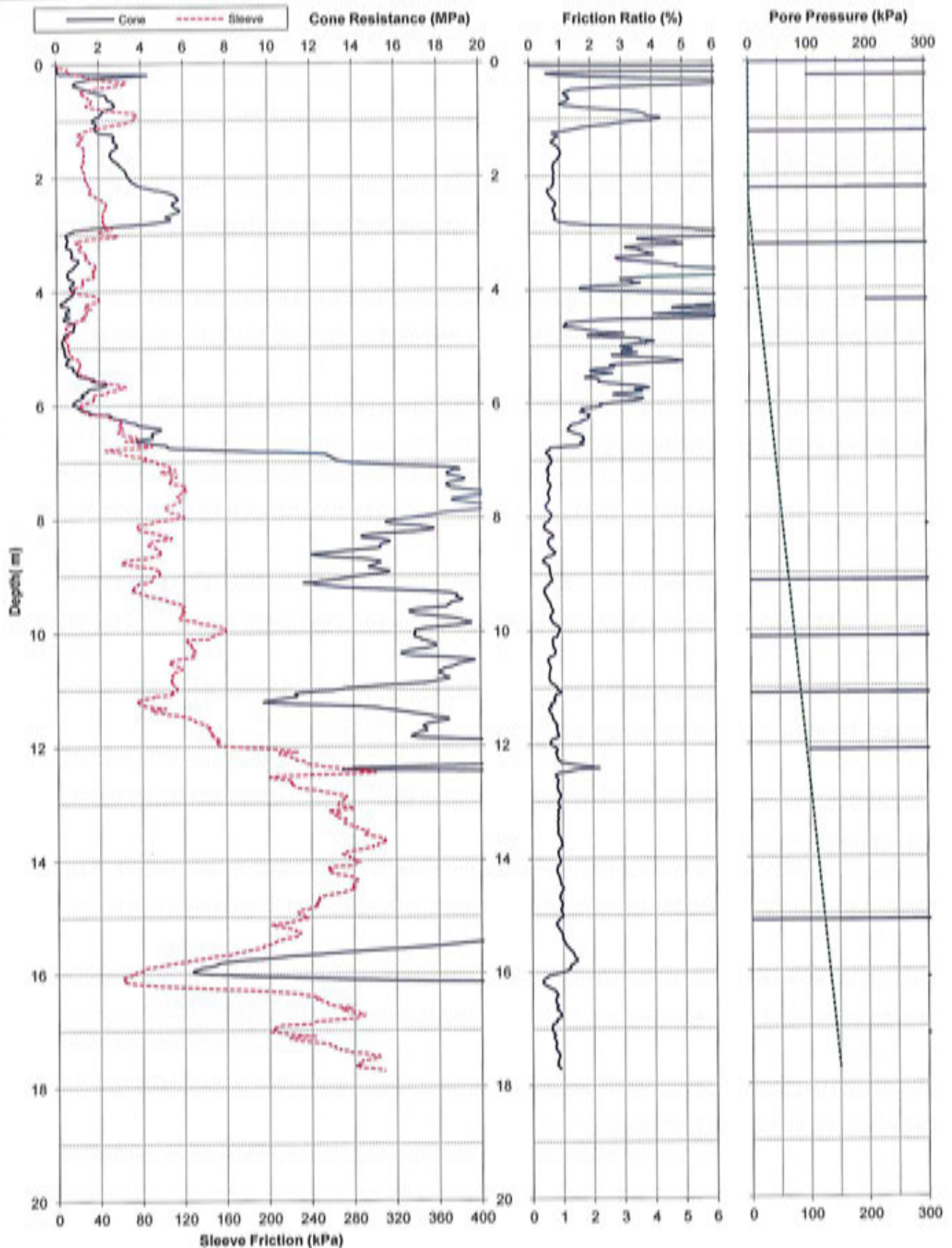
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z4-11	
Test Date: 29-Jul-2011	Location: Central City	Operator: McMillan	 		
Pre-Drill: 1.2m	Assumed GWL: 0.6mBGL	Located By: Survey GPS			
Position: 2481078.2mE 5742007.4mN 11.6mRL	Coord. System: NZMG & MSL				
Other Tests:		Comments:			





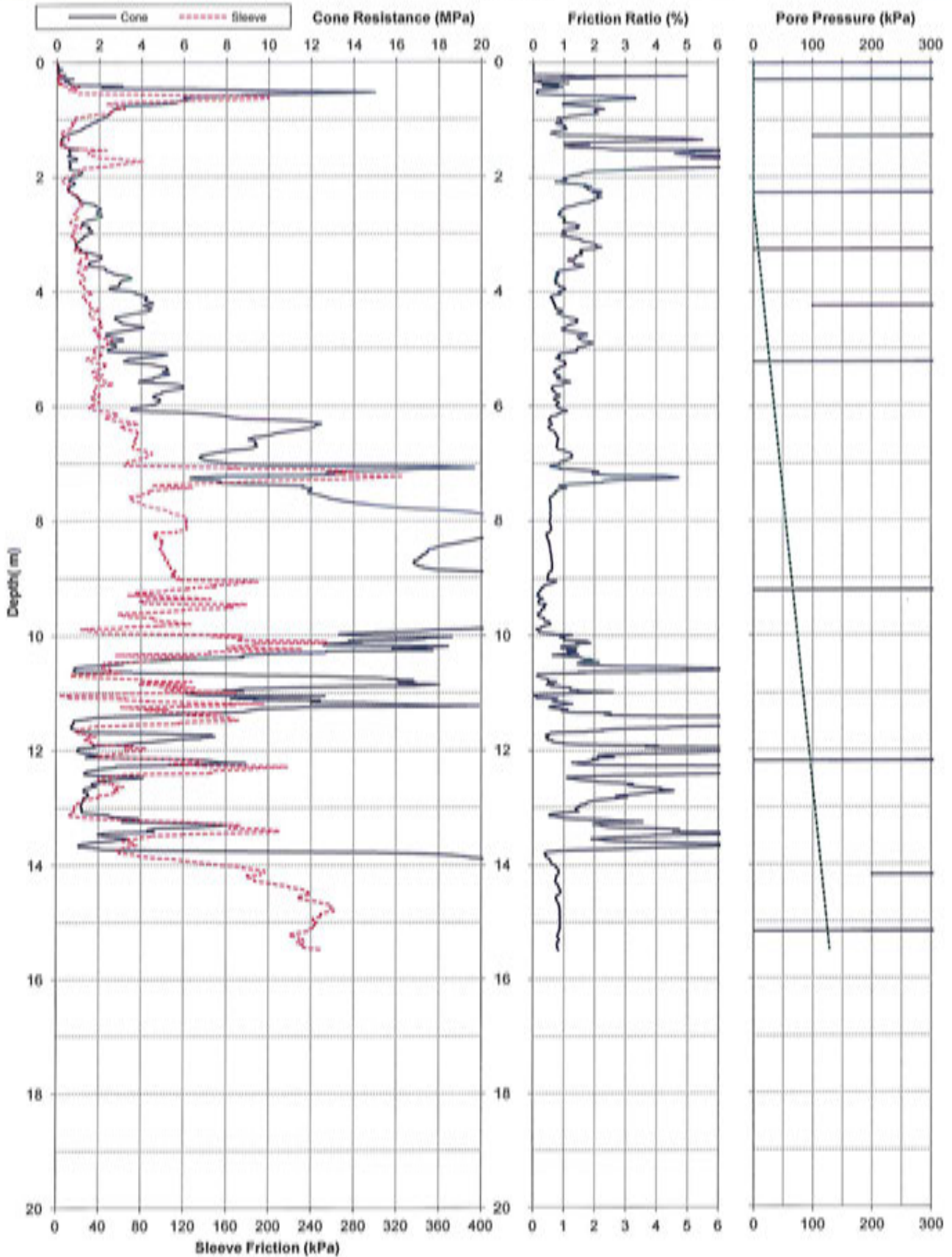
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z4-12		
Test Date: 29-Jul-2011	Location: Central City	Operator: McMillan	 			
Pre-Drill: 1.2m	Assumed GWL: 2.4mBGL	Located By: Survey GPS				
Position: 2481094.2mE	5742007.7mN	12.17mRL				Coord. System: NZMG & MSL
Other Tests:						Comments:





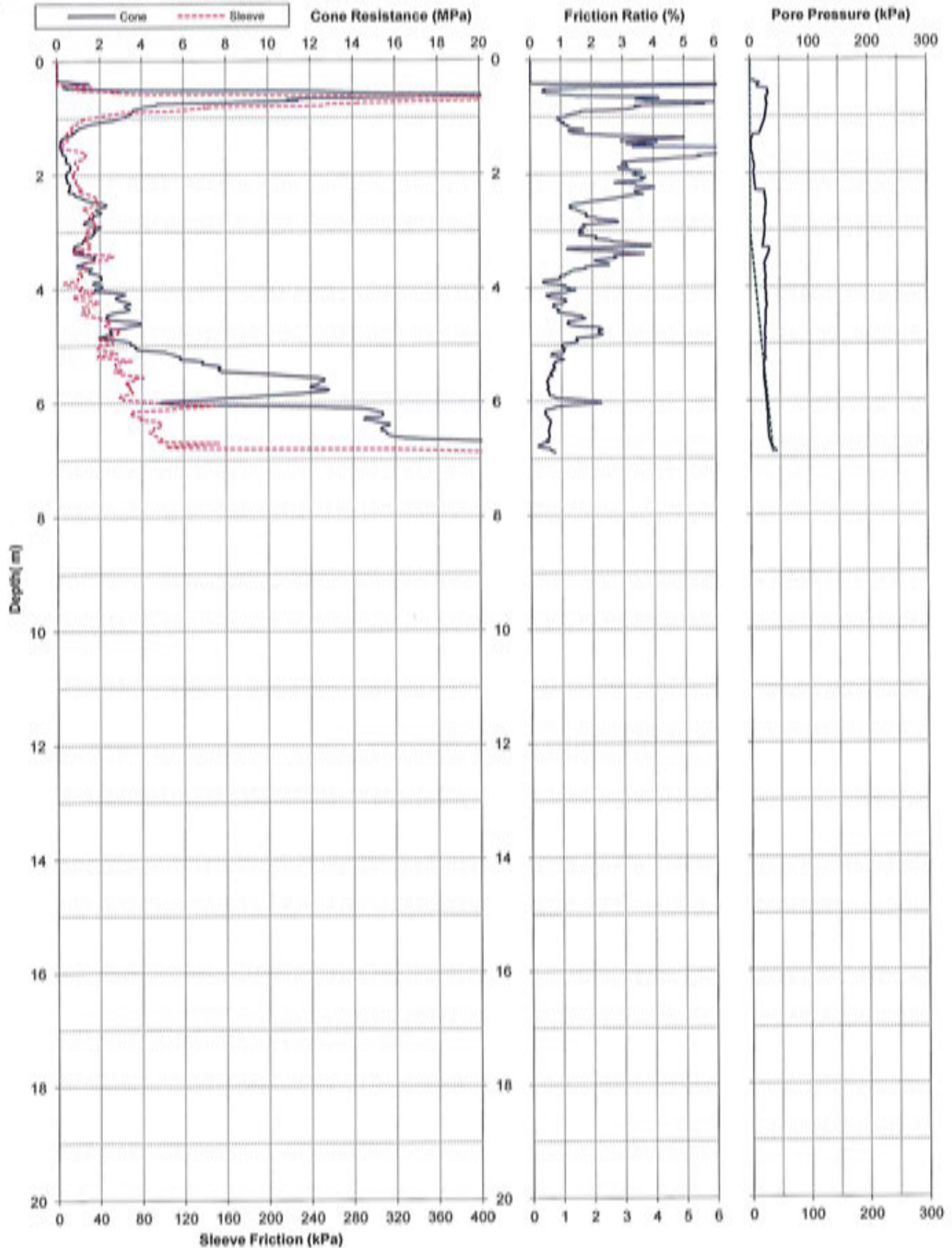
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z4-13	
Test Date: 29-Jul-2011	Location: Central City	Operator: McMillan	 		
Pre-Drill: 1.2m	Assumed GWL: 2.4mBGL	Located By: Survey GPS			
Position: 2481114.2mE 5741948.9mN 17.71mRL	Coord. System: NZMG & MSL	Comments:			
Other Tests:					





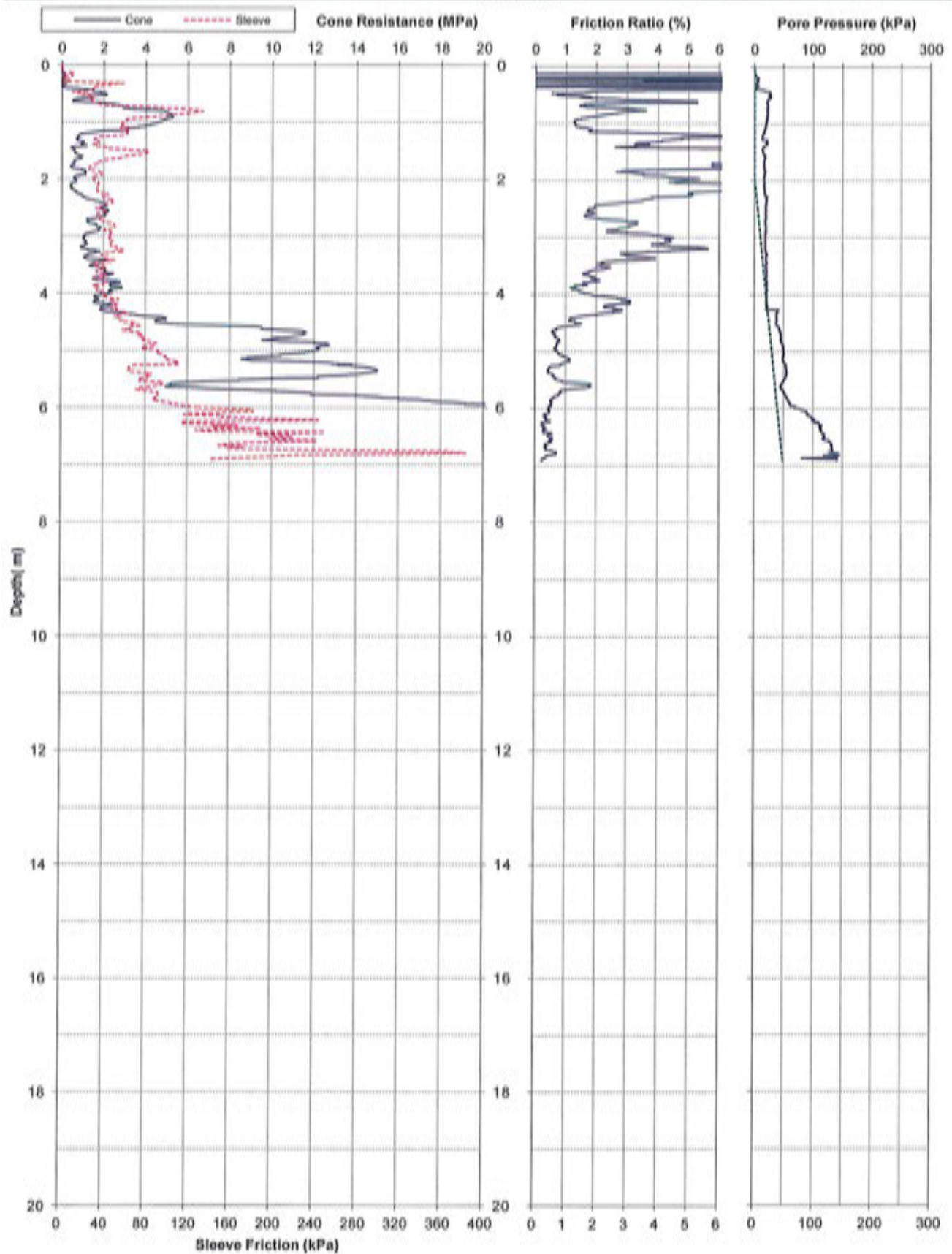
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z5-1	
Test Date: 29-Jul-2011	Location: Central City	Operator: McMillan		 	
Pre-Drill: 1.2m	Assumed GWL: 2.4mBGL	Located By: Survey GPS			
Position: 2480497.6mE	5742304mN	15.49mRL			
Other Tests:			Comments:		





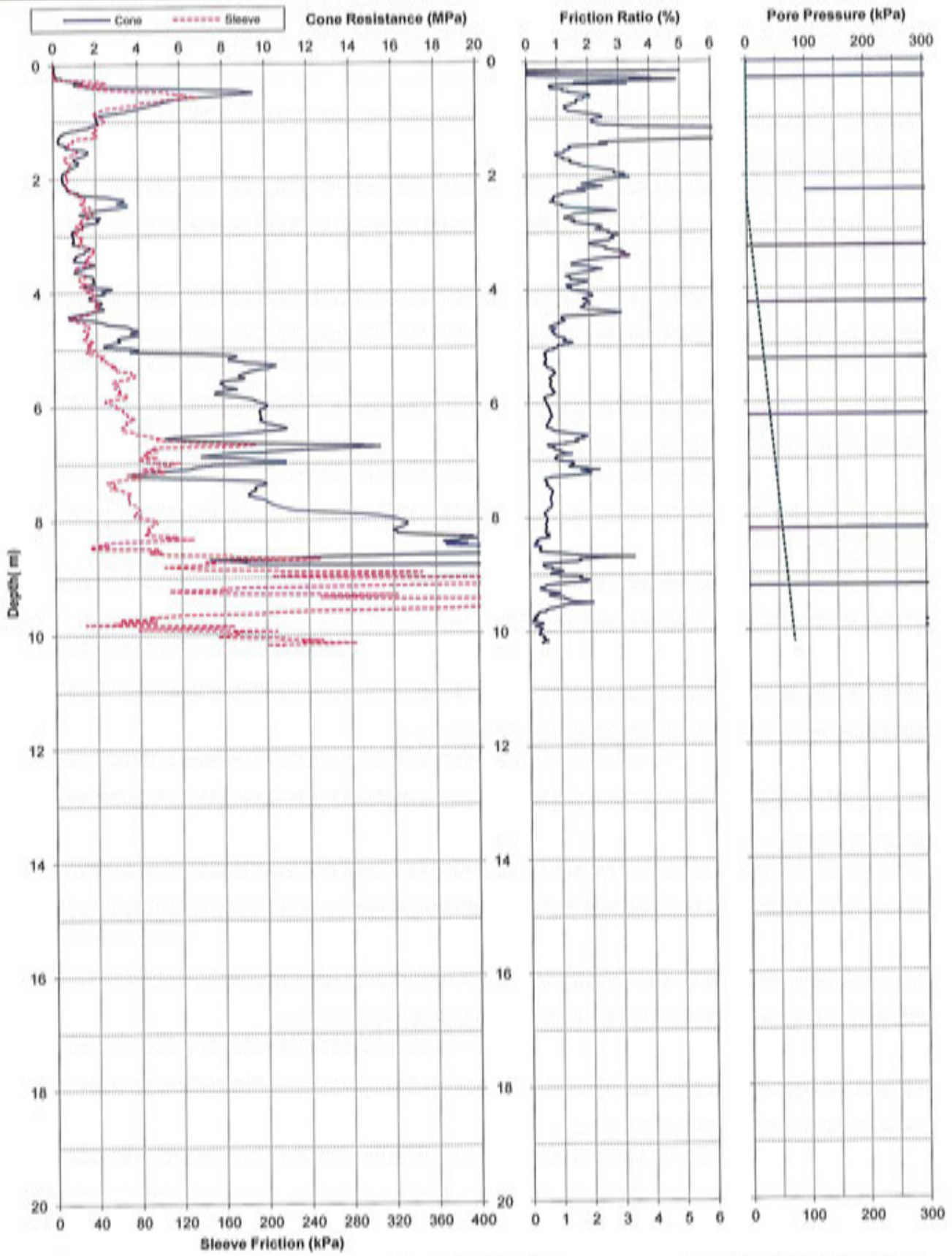
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z5-2	
Test Date: 29-Jul-2011	Location: Central City	Operator: McMillan	 		
Pre-Drill: 1.2m	Assumed GWL: 3mBGL	Located By: Survey GPS			
Position: 2480496.8mE	5742290.9mN	6.89mRL			
Other Tests:		Coord. System: NZMG & MSL			
			Comments:		





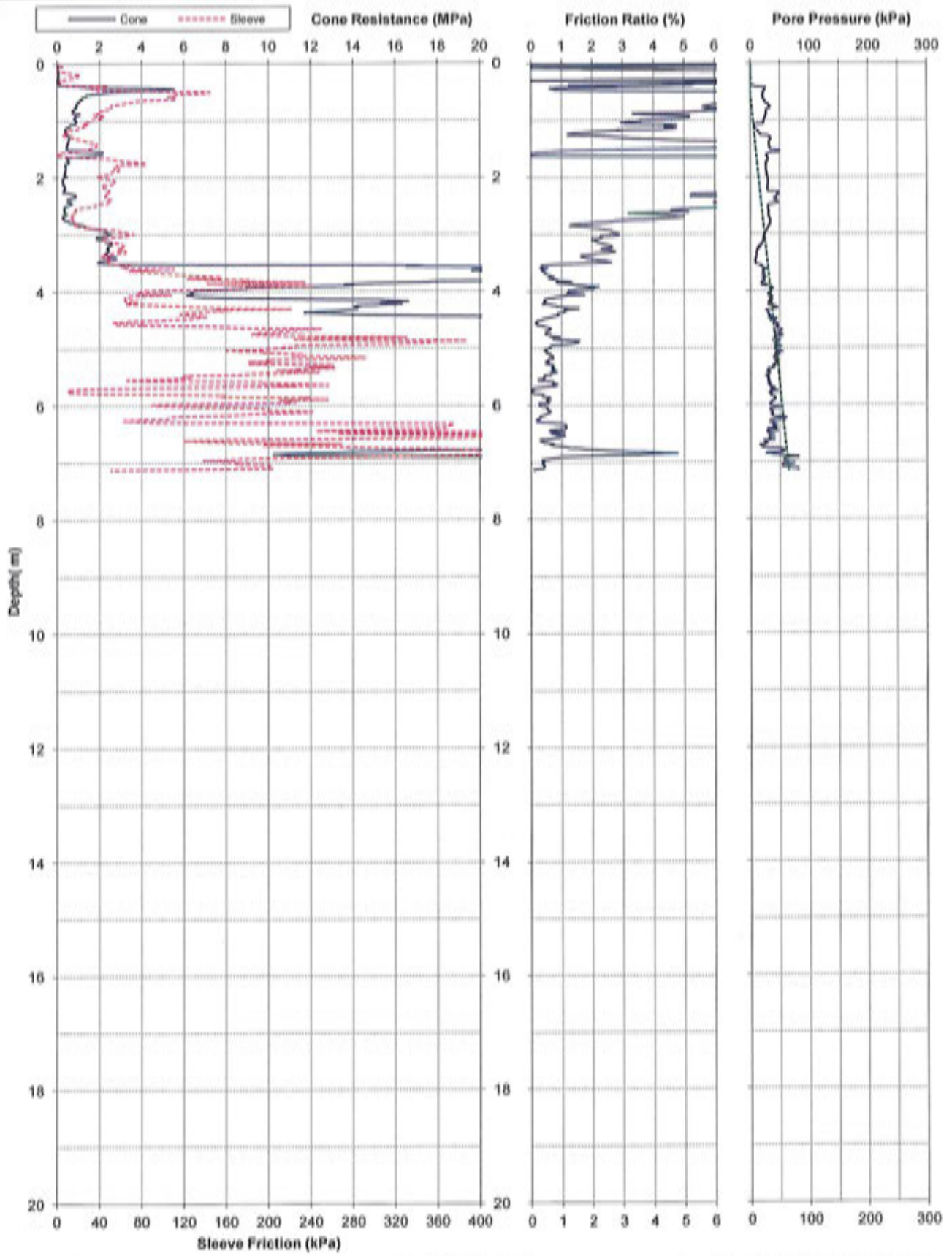
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z5-3	
Test Date: 29-Jul-2011	Location: Central City	Operator: McMillan	 		
Pre-Drill: 1.2m	Assumed GWL: 1.9mBGL	Located By: Survey GPS			
Position: 2480497.4mE	5742273.3mN	6.91mRL			
Other Tests:			Comments:		





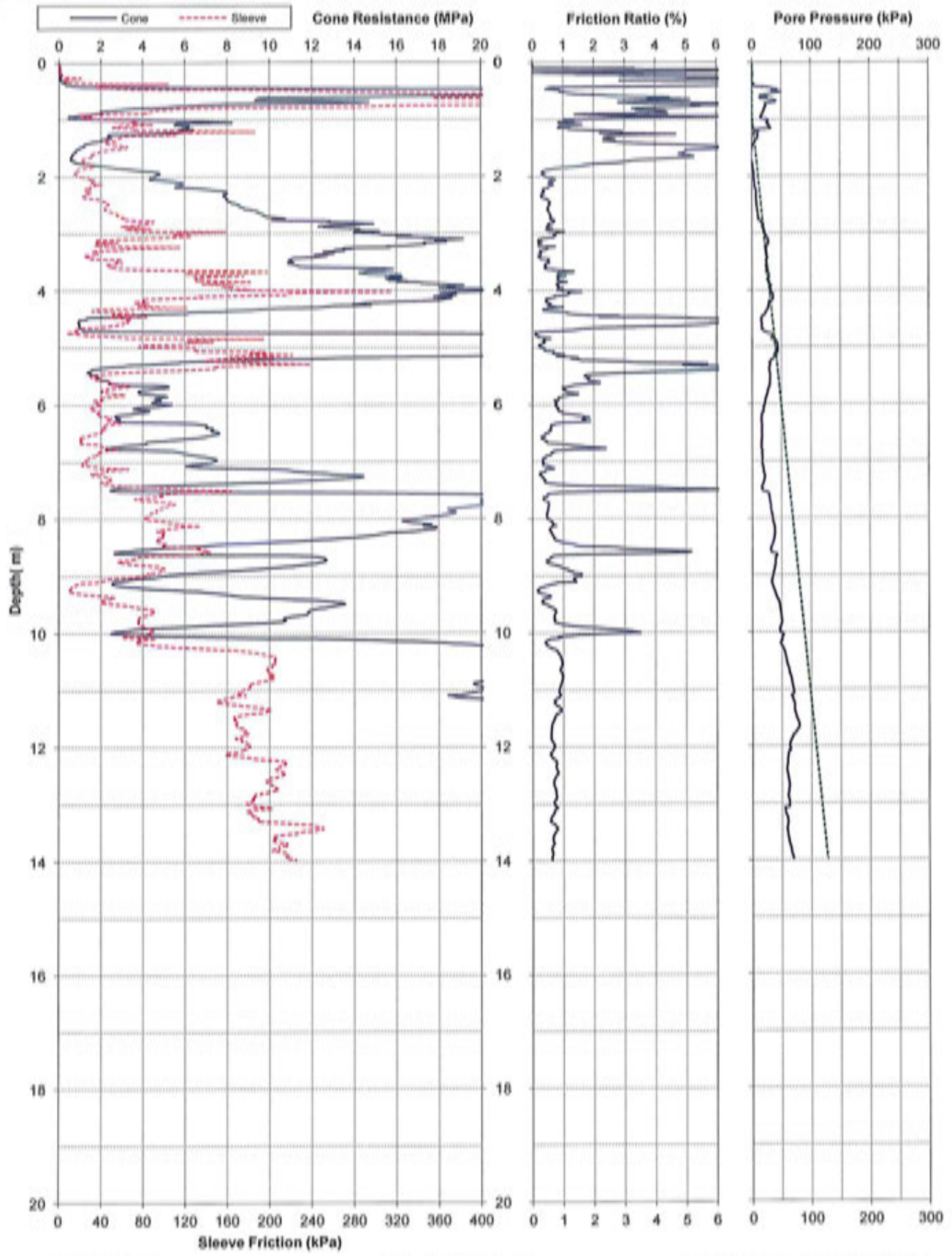
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z5-5	
Test Date: 29-Jul-2011	Location: Central City	Operator: McMillan	 		
Pre-Drill: 1.2m	Assumed GWL: 2.4mBGL	Located By: Survey GPS			
Position: 2480465.3mE 5742265.1mN 10.19mRL	Coord. System: NZMG & MSL	Comments:			
Other Tests:					





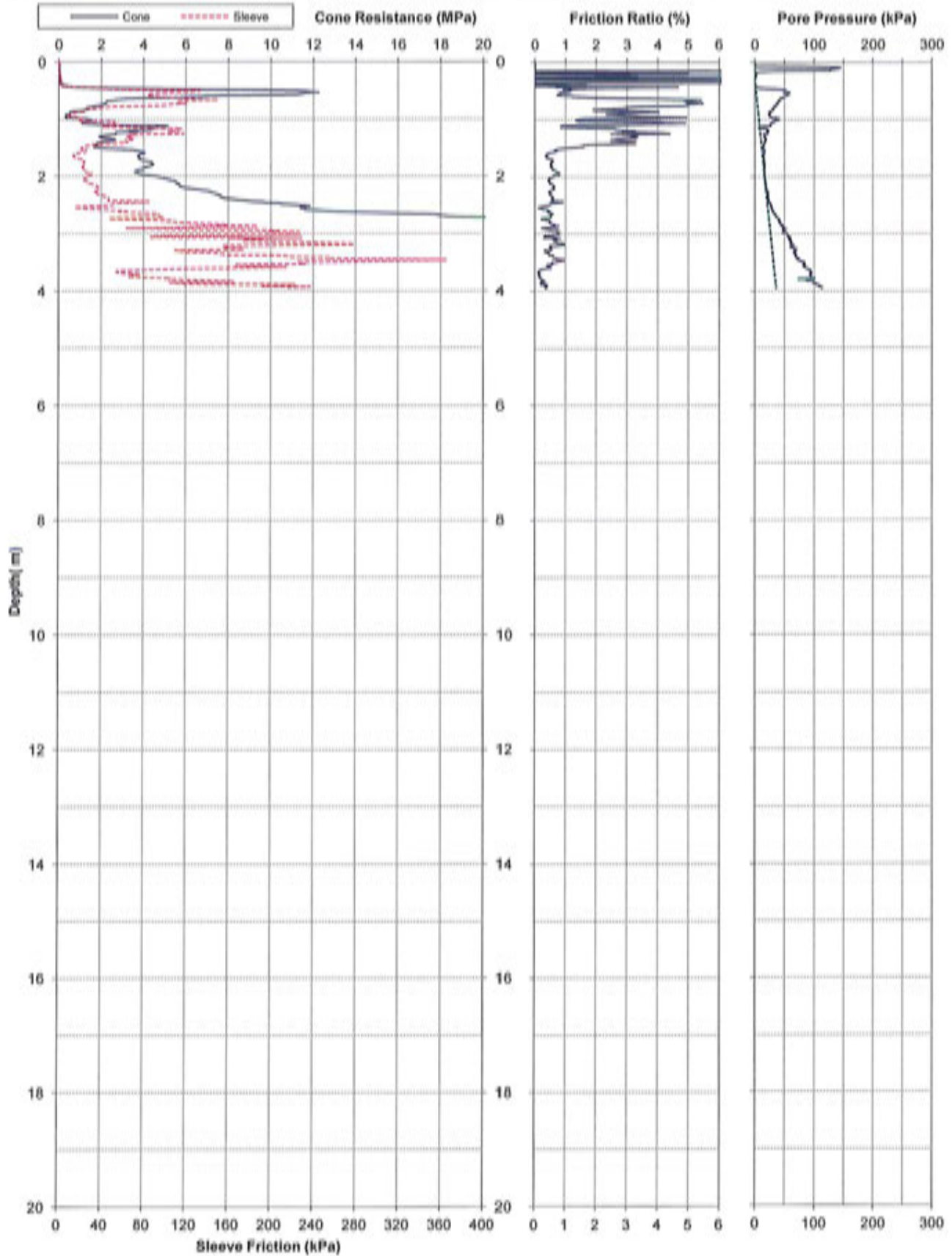
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z8-1	
Test Date: 26-Jul-2011	Location: Central City	Operator: McMillan		Christchurch City Council  	
Pre-Drill: 1.2m	Assumed GWL: 0.5mBGL	Located By: Survey GPS			
Position: 2481242.4mE	5742575.9mN	7.13mRL			
Other Tests:			Comments:		





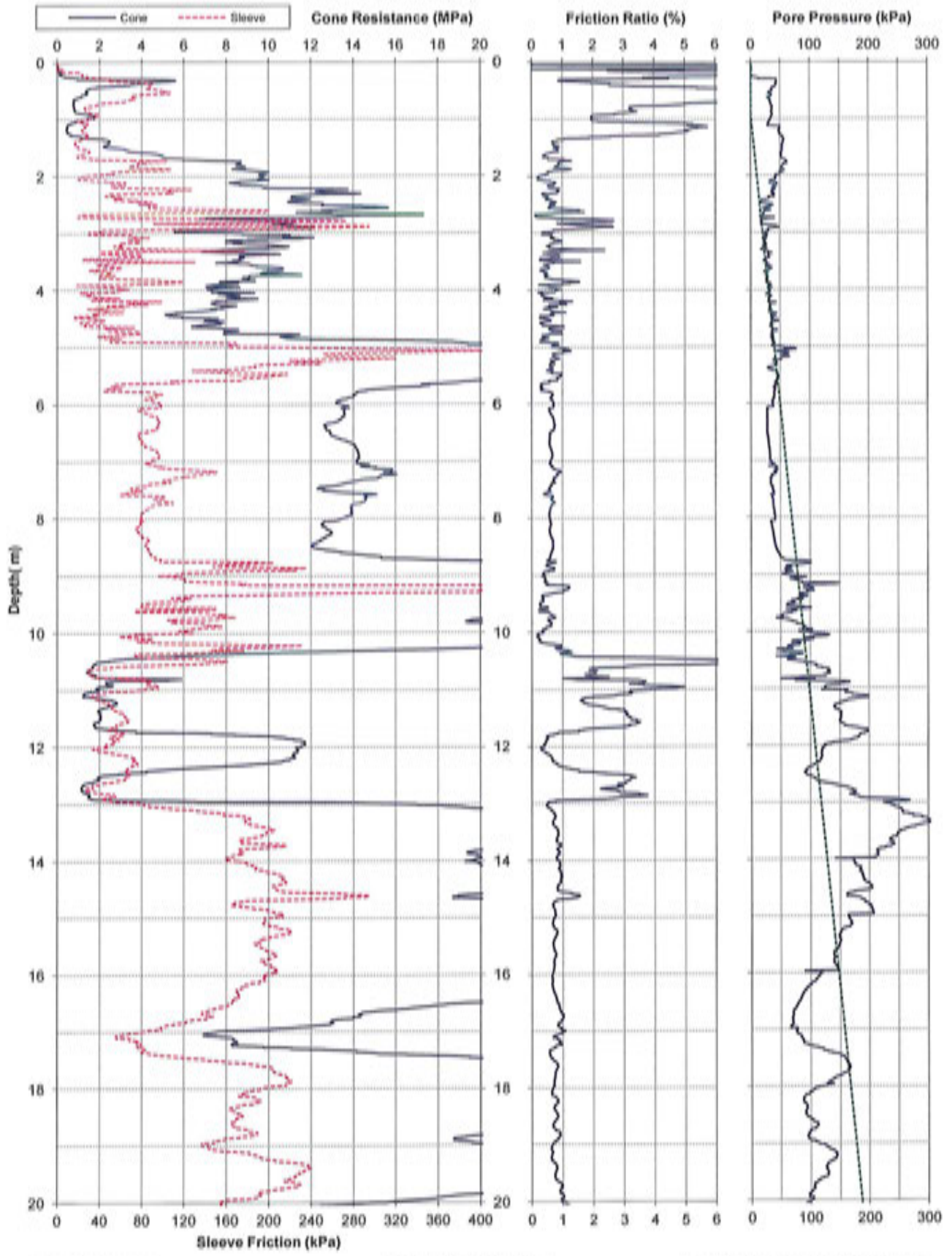
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z8-2	
Test Date: 26-Jul-2011	Location: Central City	Operator: McMillan		 	
Pre-Drill: 1.2m	Assumed GWL: 0.9mBGL	Located By: Survey GPS			
Position: 2481243.7mE	5742554.6mN	Coord. System: NZMG & MSL			
Other Tests:			Comments:		





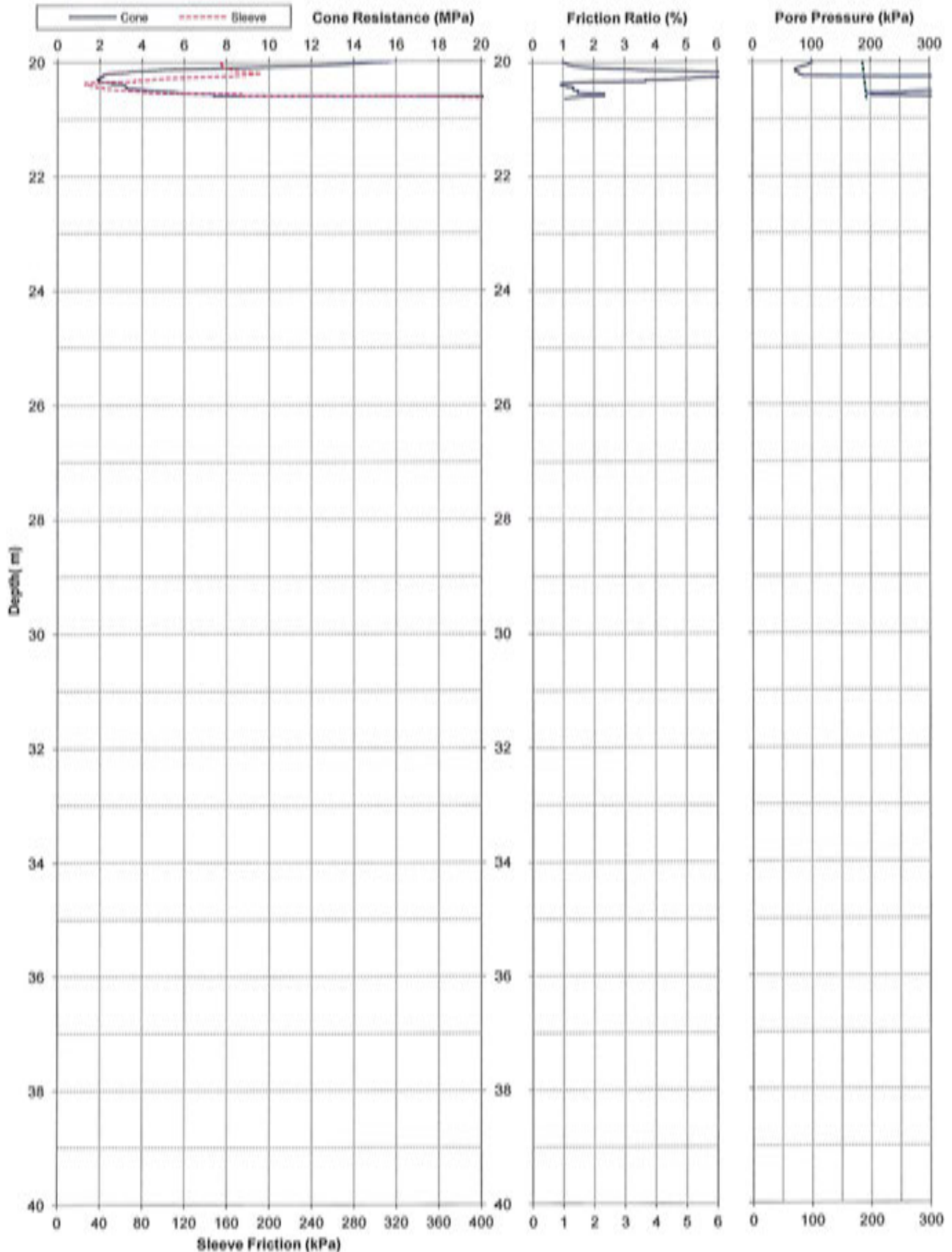
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z8-3	
Test Date: 26-Jul-2011	Location: Central City	Operator: McMillan	 		
Pre-Drill: 1.2m	Assumed GWL: 0.3mBGL	Located By: Survey GPS			
Position: 2481244mE	5742528.8mN	3.94mRL			
Other Tests:			Comments:		





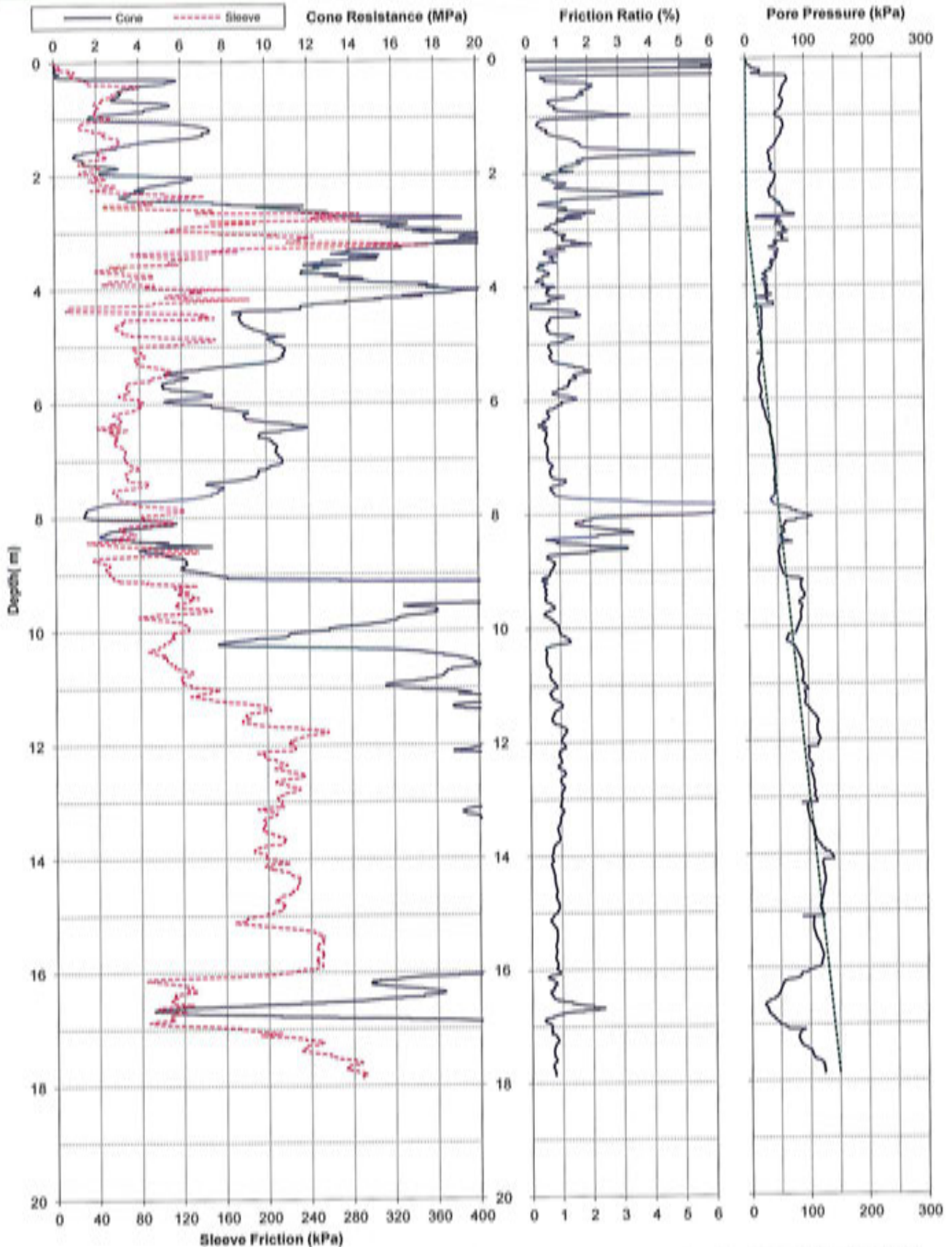
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 2	CPT-CBD-Z8-4	
Test Date: 26-Jul-2011	Location: Central City	Operator: McMillan	 		
Pre-Drill: 1.2m	Assumed GWL: 0.9mBGL	Located By: Survey GPS			
Position: 2481246.6mE	5742510.4mN	20.64mRL			
Other Tests:			Comments:		





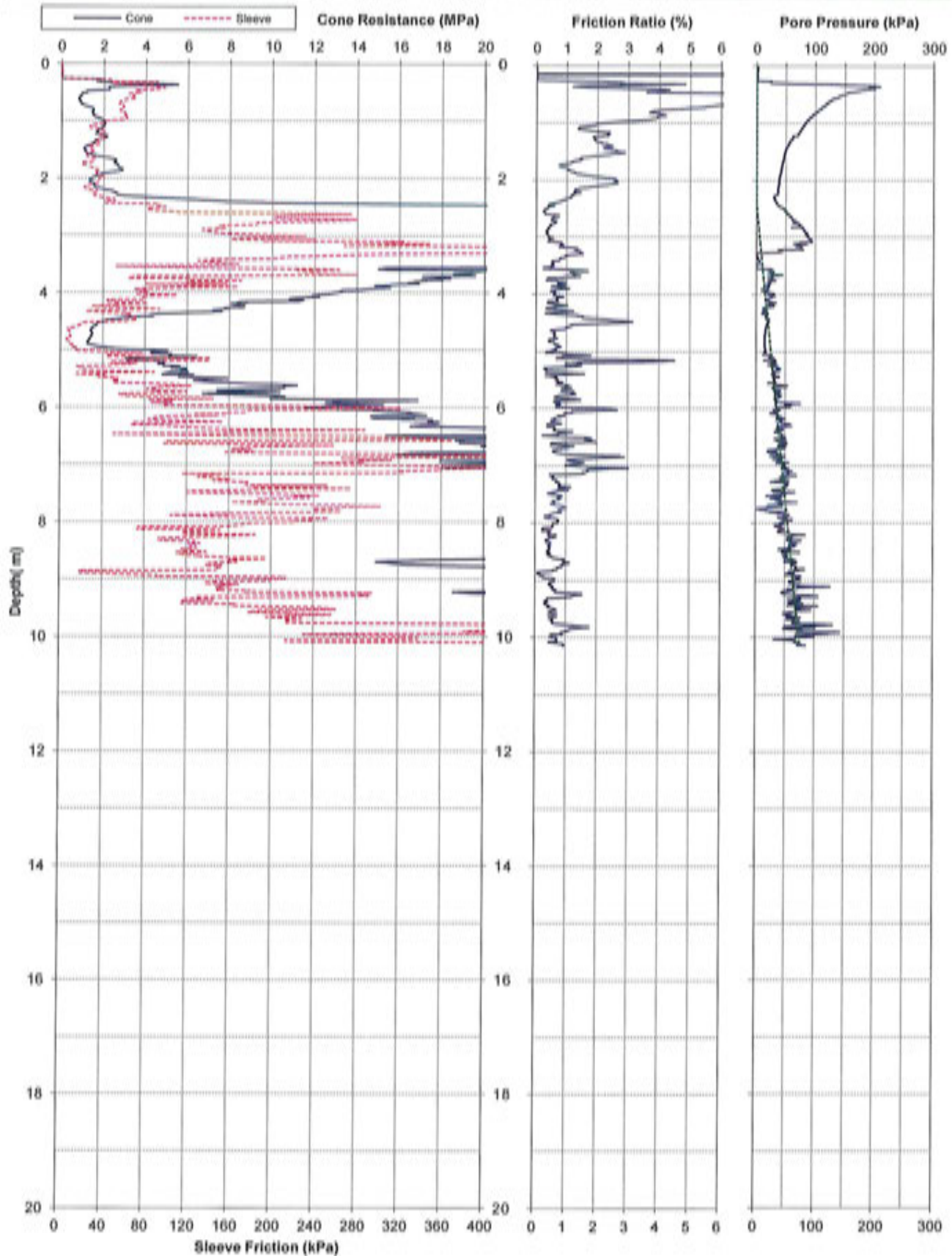
Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 2 of 2	CPT-CBD-Z8-4	
Test Date: 26-Jul-2011	Location: Central City	Operator: McMillan	 		
Pre-Drill: 1.5m	Assumed GWL: 0.9mBGL	Located By: Survey GPS			
Position: 2481246.6mE 5742510.4mN 20.64mRL	Coord. System: NZMG & MSL				
Other Tests:			Comments:		





Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z8-6	
Test Date: 22-Jul-2011	Location: Central City	Operator: McMillan	 		
Pre-Drill: 1.2m	Assumed GWL: 2.6mBGL	Located By: Survey GPS			
Position: 2481061.2mE	5742390.2mN	17.86mRL			
Other Tests:		Coord. System: NZMG & MSL			
			Comments:		



Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1		CPT-CBD-Z8-7	
Test Date: 22-Jul-2011	Location: Central City		Operator: McMillan		Christchurch City Council  	
Pre-Drill: 1.2m	Assumed GWL: 2.4mBGL		Located By: Survey GPS			
Position: 2481051mE	5742425.2mN	10.14mRL	Coord. System: NZMG & MSL			
Other Tests:			Comments:			



Project: Christchurch 2011 Earthquake - CCC Ground Investigations			Page: 1 of 1	CPT-CBD-Z8-11	
Test Date: 26-Jul-2011	Location: Central City		Operator: McMillan	 	
Pre-Drill: 1.2m	Assumed GWL: 1.3mBGL		Located By: Survey GPS		
Position: 24R1070mE	5742425.1mN	7.3mRL	Coord. System: NZMG & MSL		
Other Tests:			Comments:		

