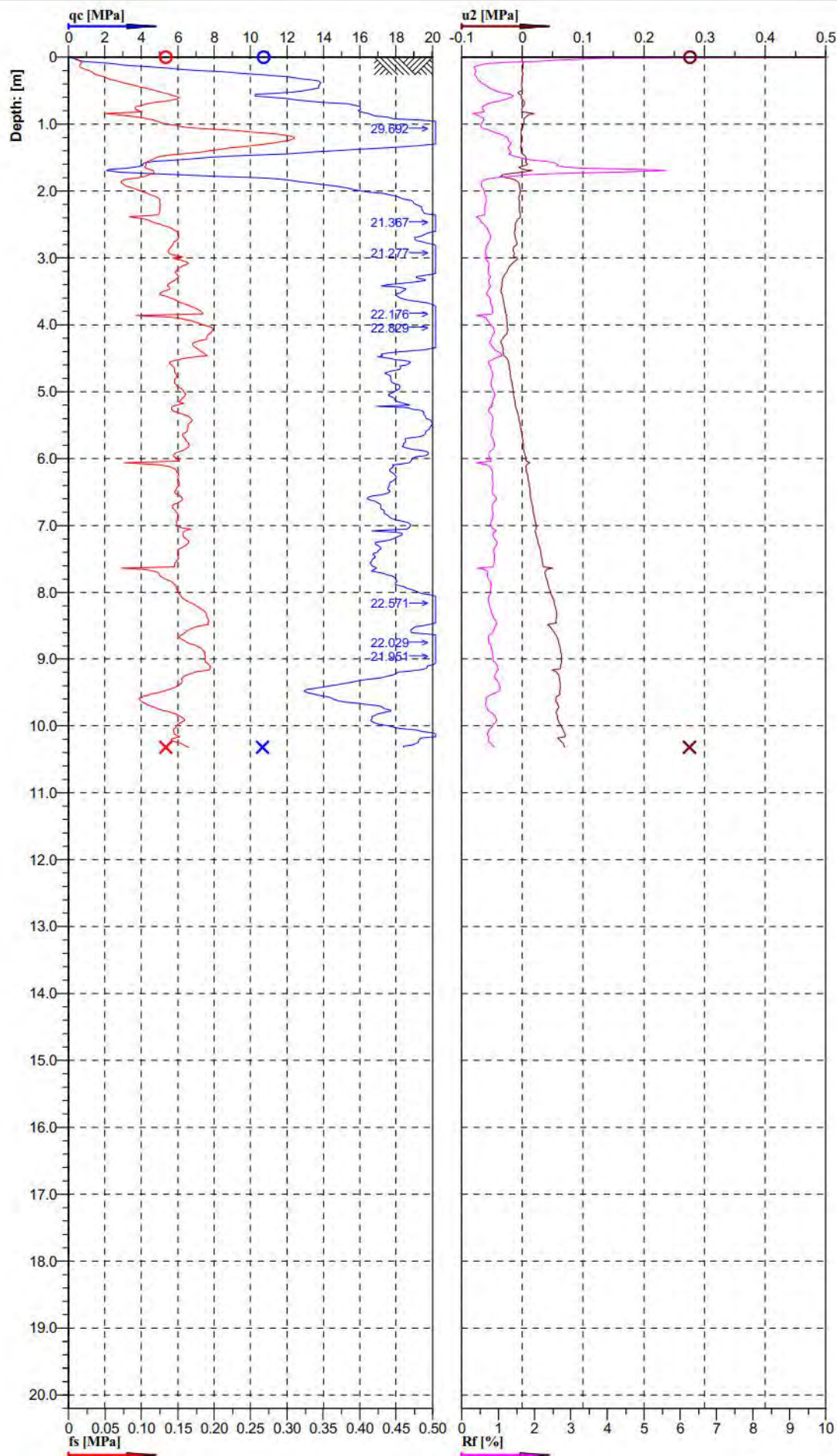


Classification by Robertson 1986

Clay (3)
Sand (9)
Sand to silty sand (8)

Sand (9)



PRO-DRILL
SPECIALIST DRILLING SERVICES



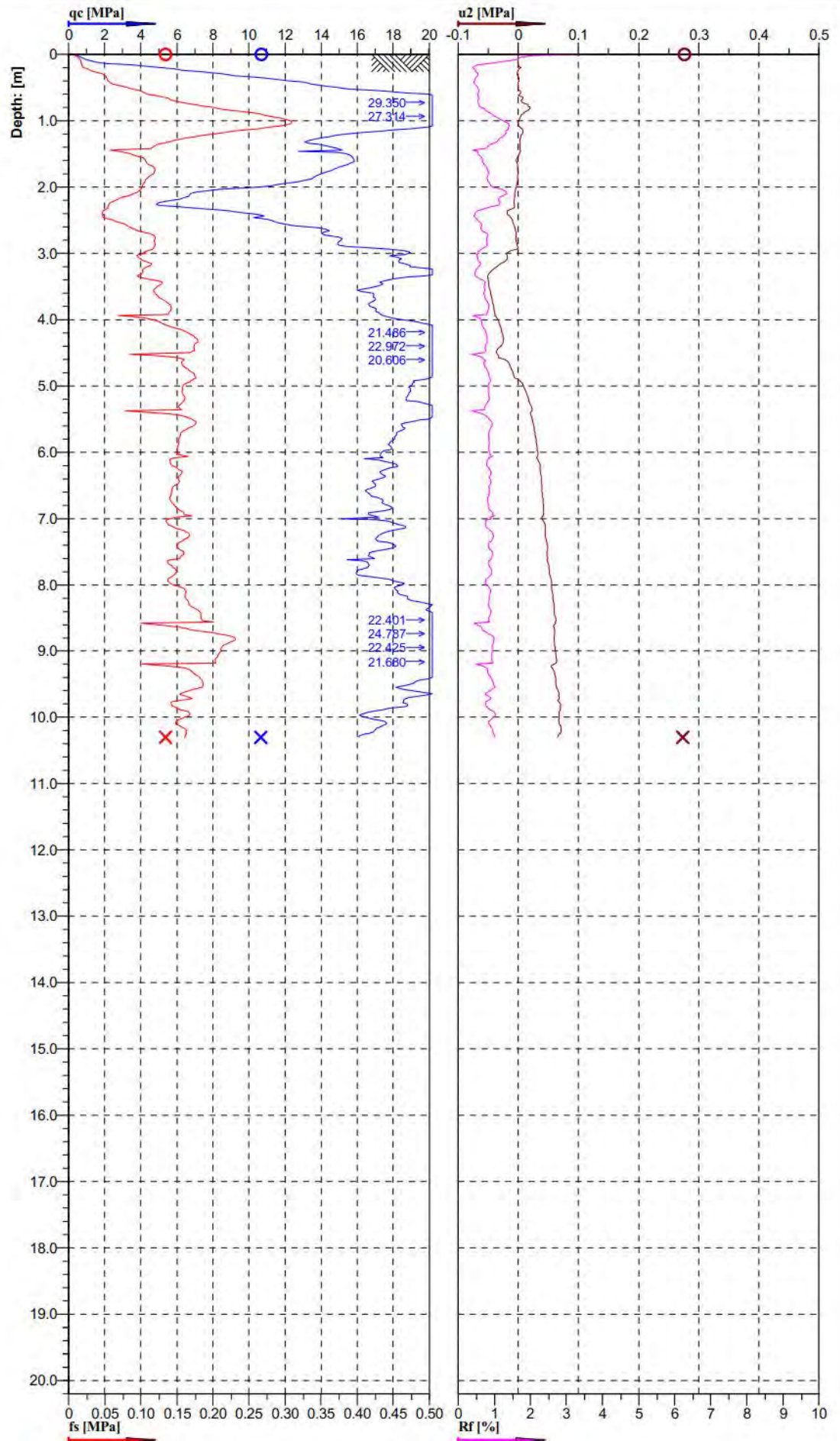
Cone No: 4494
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location:	CHCH	Position:	X: 0.00 m, Y: 0.00 m	Ground level:	0..00	Test No.:	CPTPF42
Project ID:		Client:	AURECON	Date:	29/06/2016	Scale:	1 : 87
Project:	PRESTONS SOUTH			Page:	1/1	Fig.:	
				File:	PrestonsSouthCPTPF42.cpt		

Classification by
Robertson 1986

- Clayey silt to silty clay (5)
- Sand (9)
- Sand to silty sand (8)
- Sand (9)
- Silty sand to sandy silt (7)

Sand (9)



PRO-DRILL
SPECIALIST DRILLING SERVICES



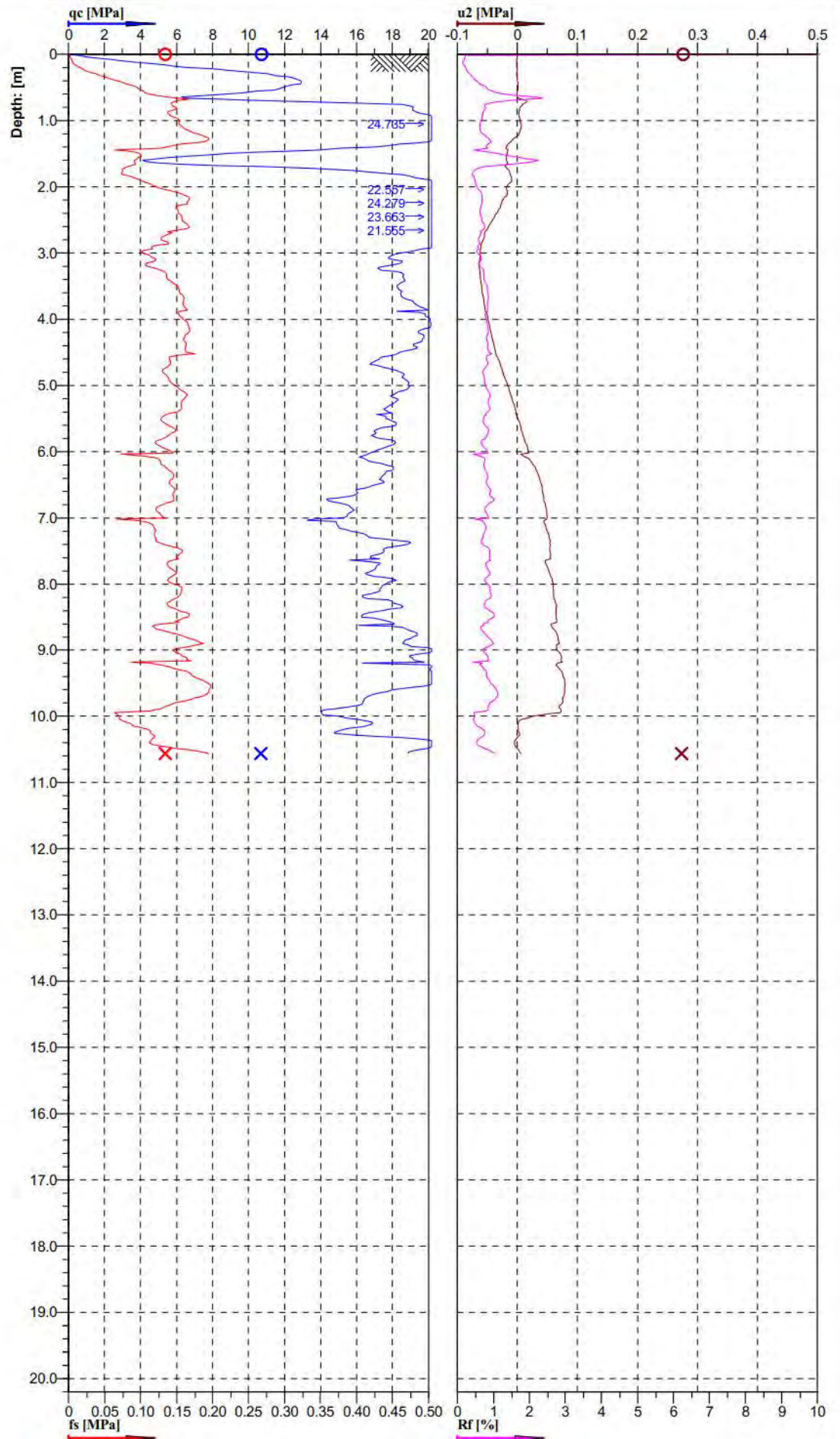
Cone No: 4494
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location:	CHCH	Position:	X: 0.00 m, Y: 0.00 m	Ground level:	0.00	Test No.:	CPTPF43
Project ID:		Client:	AURECON	Date:	28/06/2016	Scale:	1 : 87
Project:	PRESTONS SOUTH			Page:	1/1	Fig.:	
				File:	PrestonsSouthCPTPF43.cpt		

Classification by
Robertson 1986

Sensitive fine grained (1)

Sand (9)

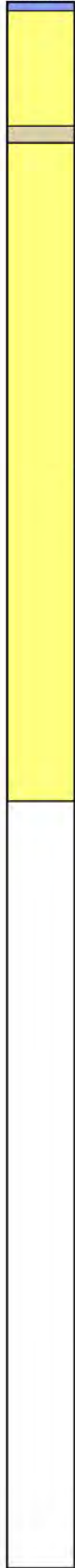


PRO-DRILL
SPECIALIST GEOTECHNICAL ENGINEERS

Cone No: 4494
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location:	CHCH	Position:	X: 0.00 m, Y: 0.00 m	Ground level:	0.00	Test No.:	CPTPF44
Project ID:		Client:	AURECON	Date:	29/06/2016	Scale:	1 : 87
Project:	PRESTONS SOUTH			Page:	1/1	Fig.:	
				File:	PrestonsSouthCPTPF44.cpt		

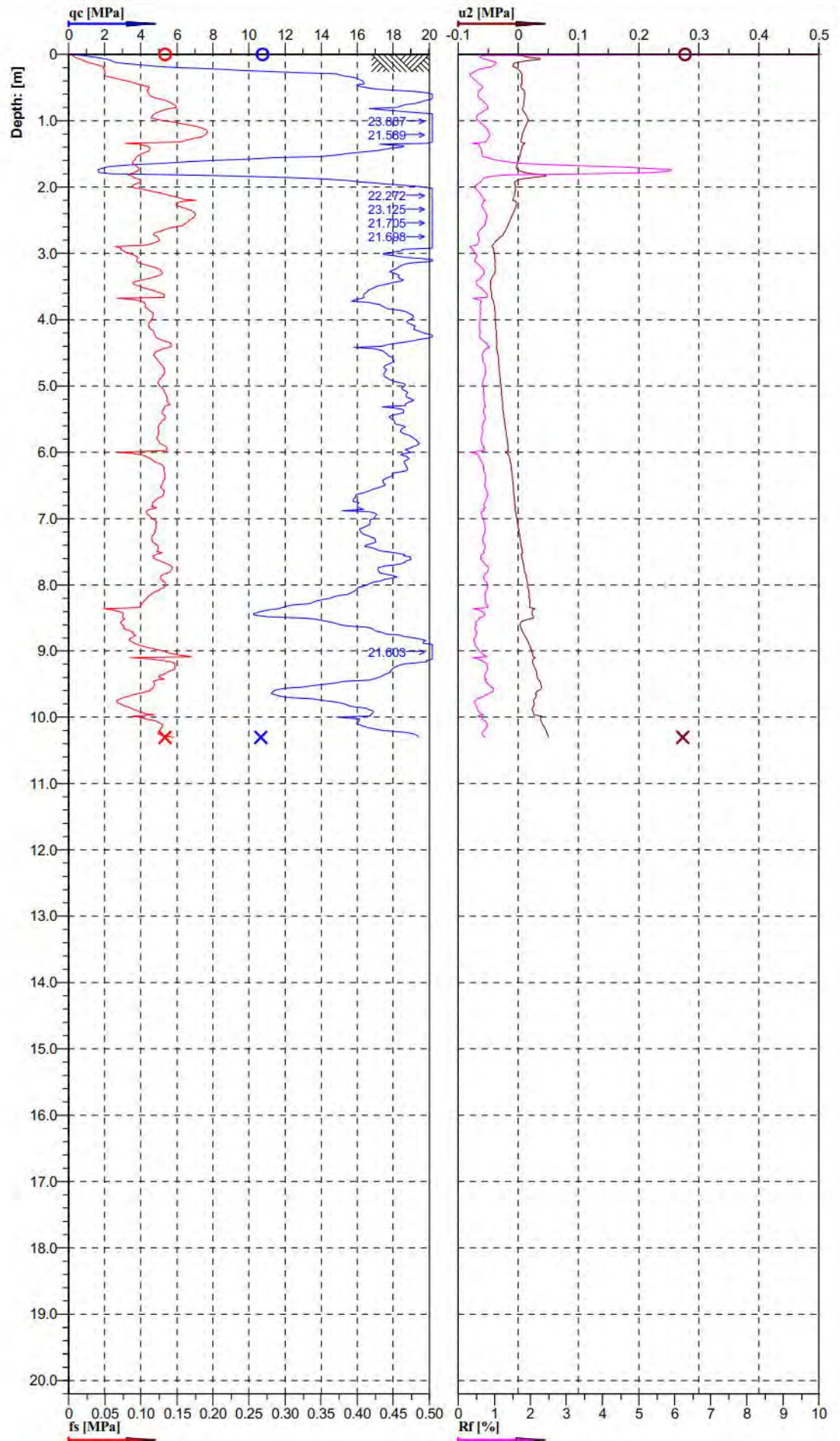
Classification by
Robertson 1986



Sand (9)

Clay (3)

Sand (9)



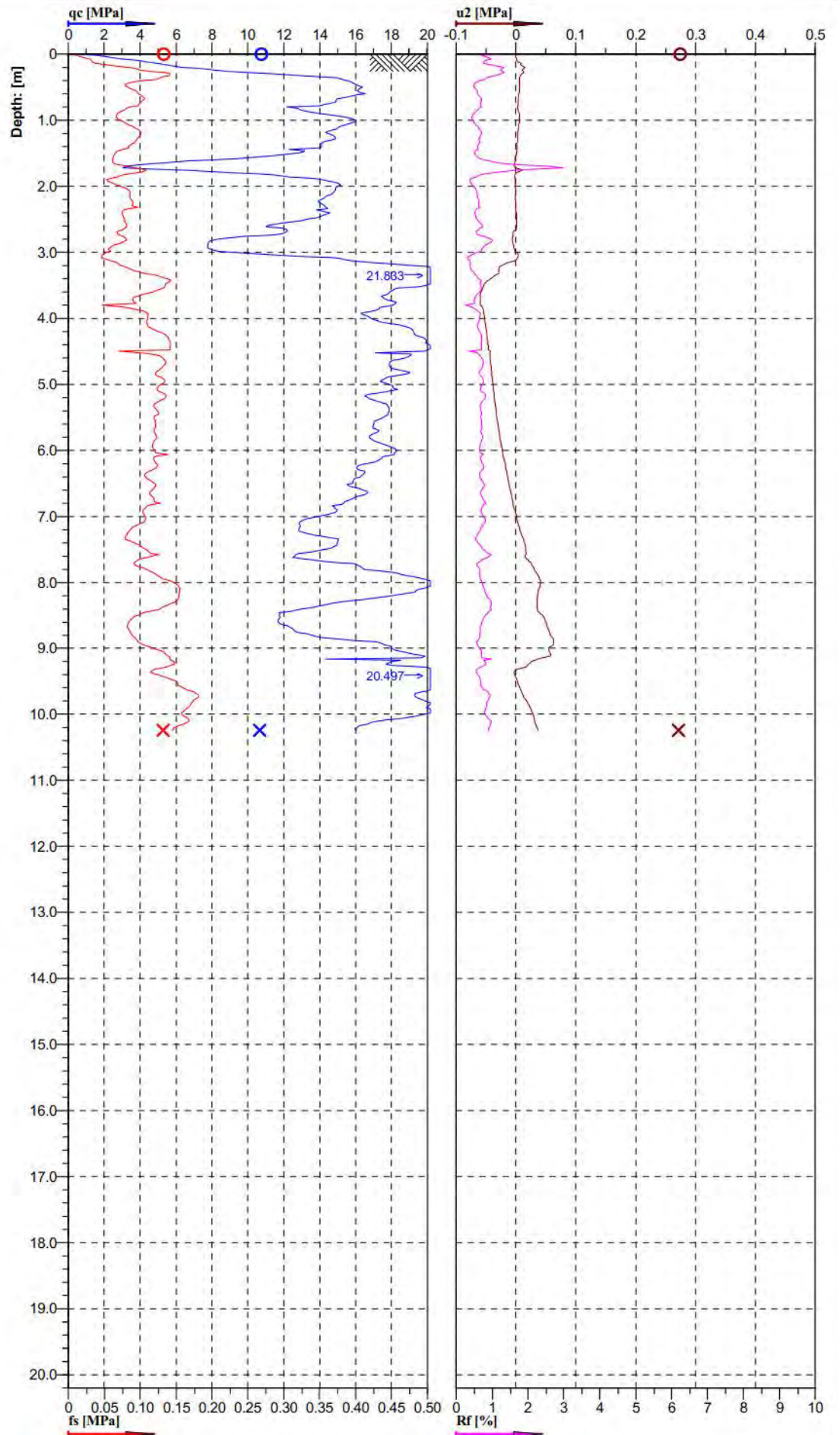
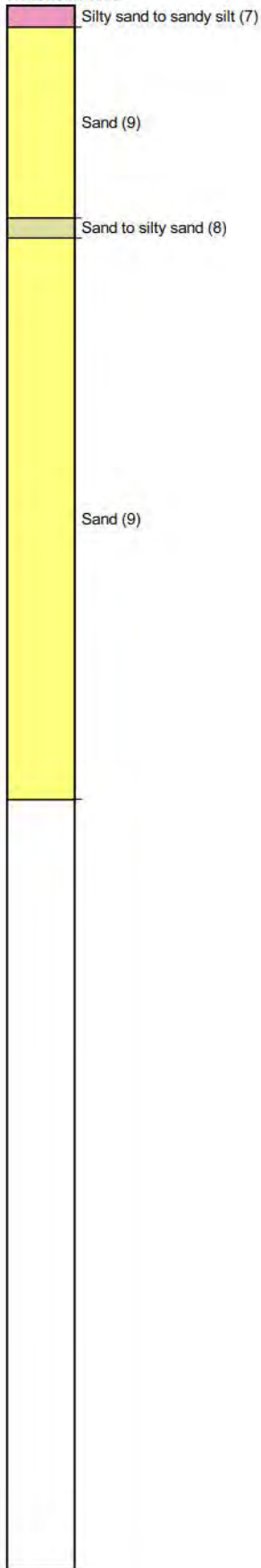
PRO-DRILL
SPECIALIST GEOTECHNICAL ENGINEERS



Cone No: 4494
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location:	CHCH	Position:	X: 0.00 m, Y: 0.00 m	Ground level:	0..00	Test No.:	CPTPF45
Project ID:		Client:	AURECON	Date:	29/06/2016	Scale:	1 : 87
Project:	PRESTONS SOUTH			Page:	1/1	Fig.:	
				File:	PrestonsSouthCPTPF45.cpt		

Classification by
Robertson 1986



PRO-DRILL
SPECIALIST DRILLING SERVICES



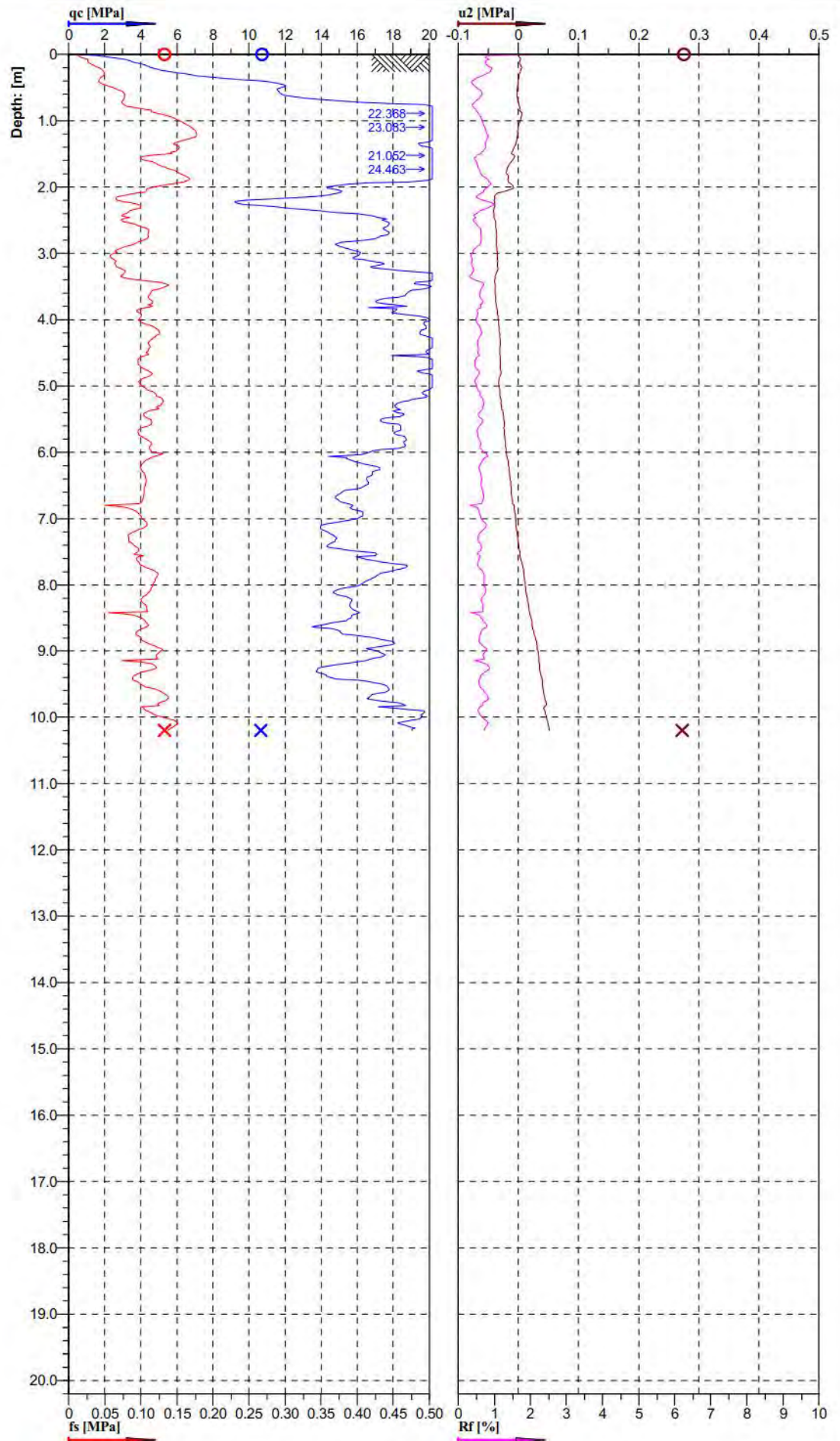
Cone No: 4494
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location:	CHCH	Position:	X: 0.00 m, Y: 0.00 m	Ground level:	0..00	Test No.:	CPTPF46
Project ID:		Client:	AURECON	Date:	27/06/2016	Scale:	1 : 87
Project:	PRESTONS SOUTH			Page:	1/1	Fig.:	
				File:	PrestonsSouthCPTPF46.cpt		

Classification by
Robertson 1986

Silty sand to sandy silt (7)

Sand (9)



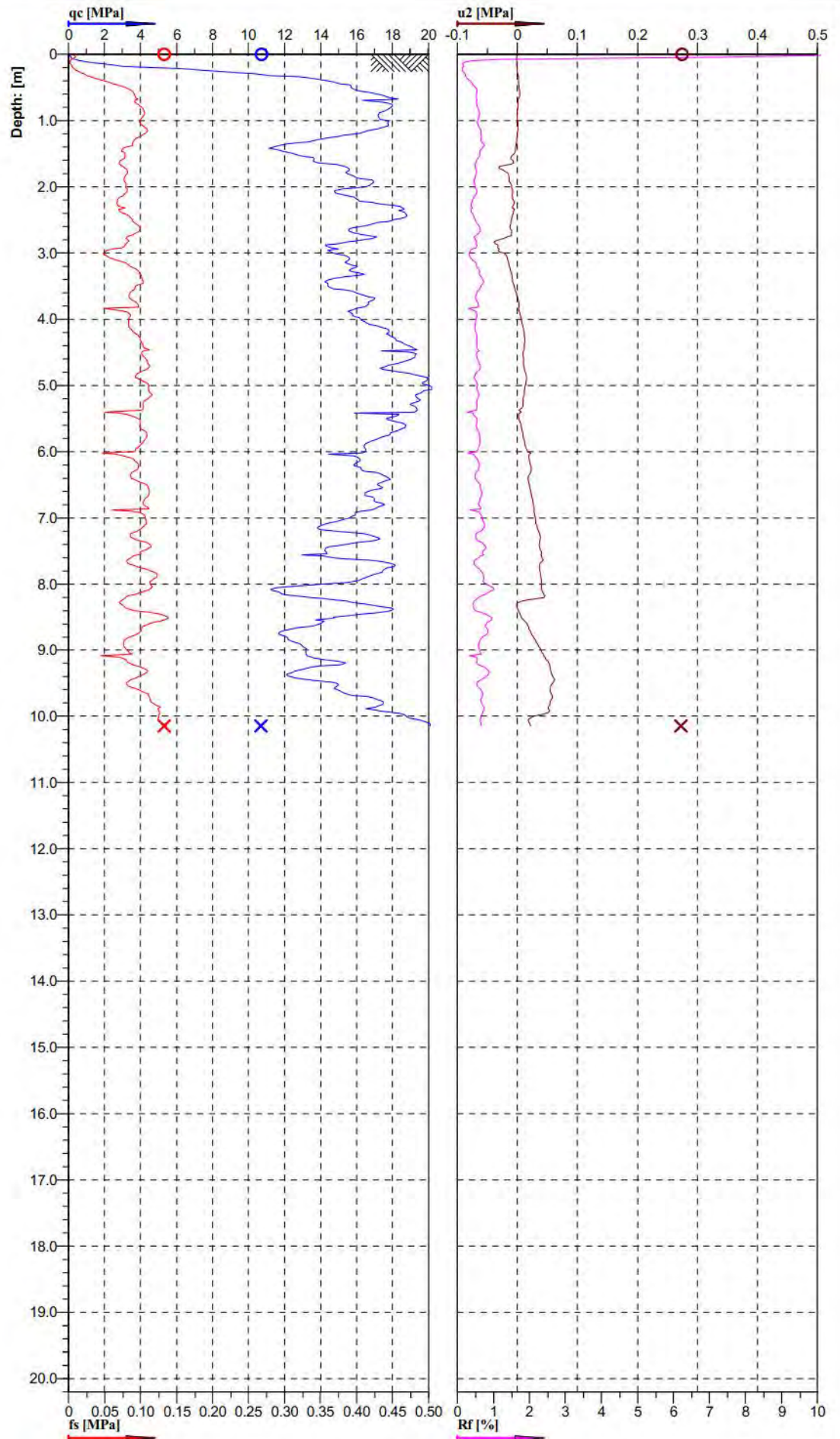
PRO-DRILL
SPECIALIST GEOTECHNICAL ENGINEERS

Cone No: 4494
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location:	CHCH	Position:	X: 0.00 m, Y: 0.00 m	Ground level:	0.00	Test No.:	CPTPF47
Project ID:		Client:	AURECON	Date:	27/06/2016	Scale:	1 : 87
Project:	PRESTONS SOUTH			Page:	1/1	Fig.:	
				File:	PrestonsSouthCPTPF47.cpt		

Classification by
Robertson 1986
Clay (3)

Sand (9)



PRO-DRILL
SPECIALIST DRILLING SERVICES



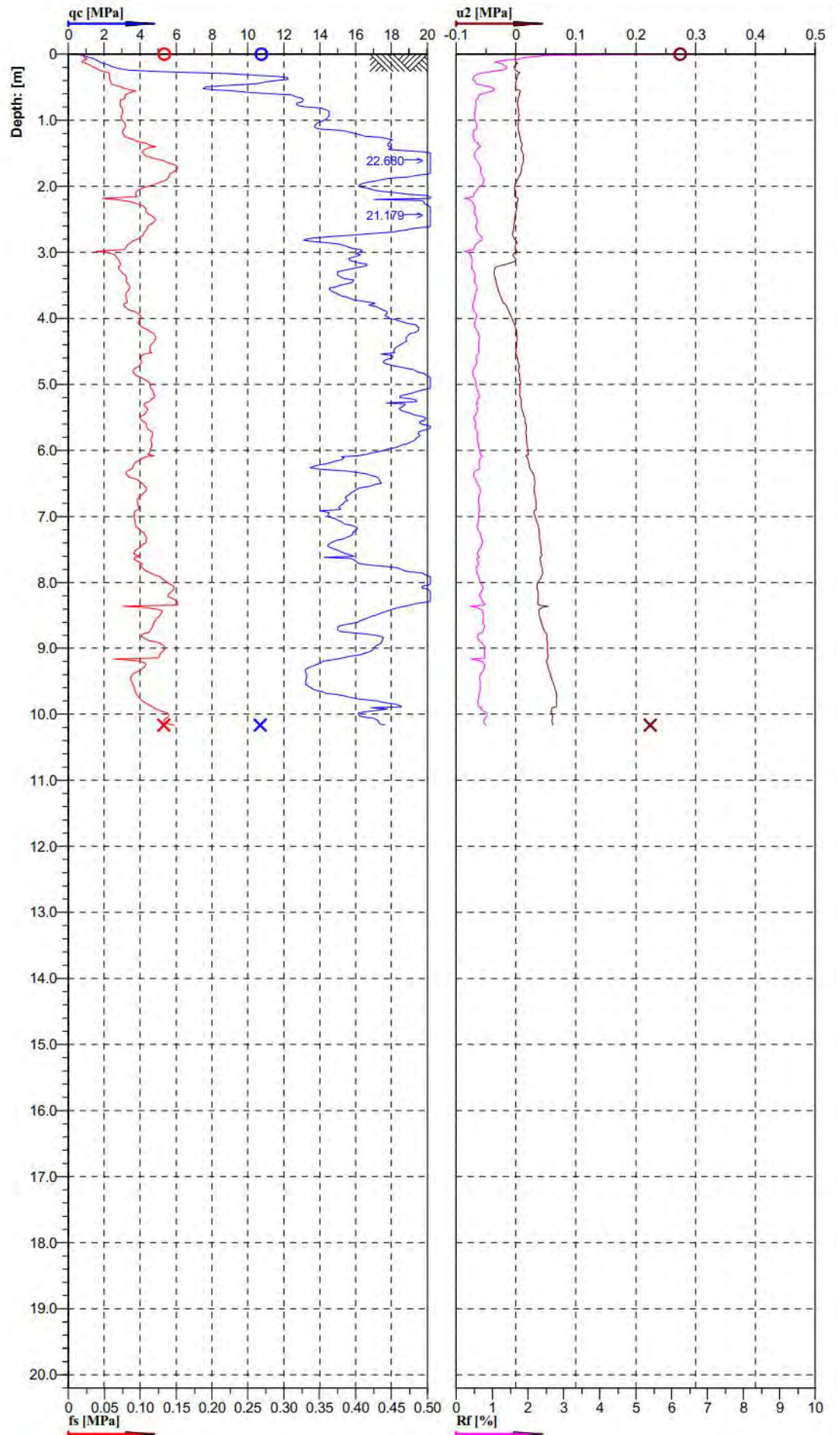
Cone No: 4494
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location:	CHCH	Position:	X: 0.00 m, Y: 0.00 m	Ground level:	0..00	Test No.:	CPTPF48
Project ID:		Client:	AURECON	Date:	27/06/2016	Scale:	1 : 87
Project:	PRESTONS SOUTH			Page:	1/1	Fig.:	
				File:	PrestonsSouthCPTPF48.cpt		

Classification by
Robertson 1986

Sandy silt to clayey silt (6)

Sand (9)



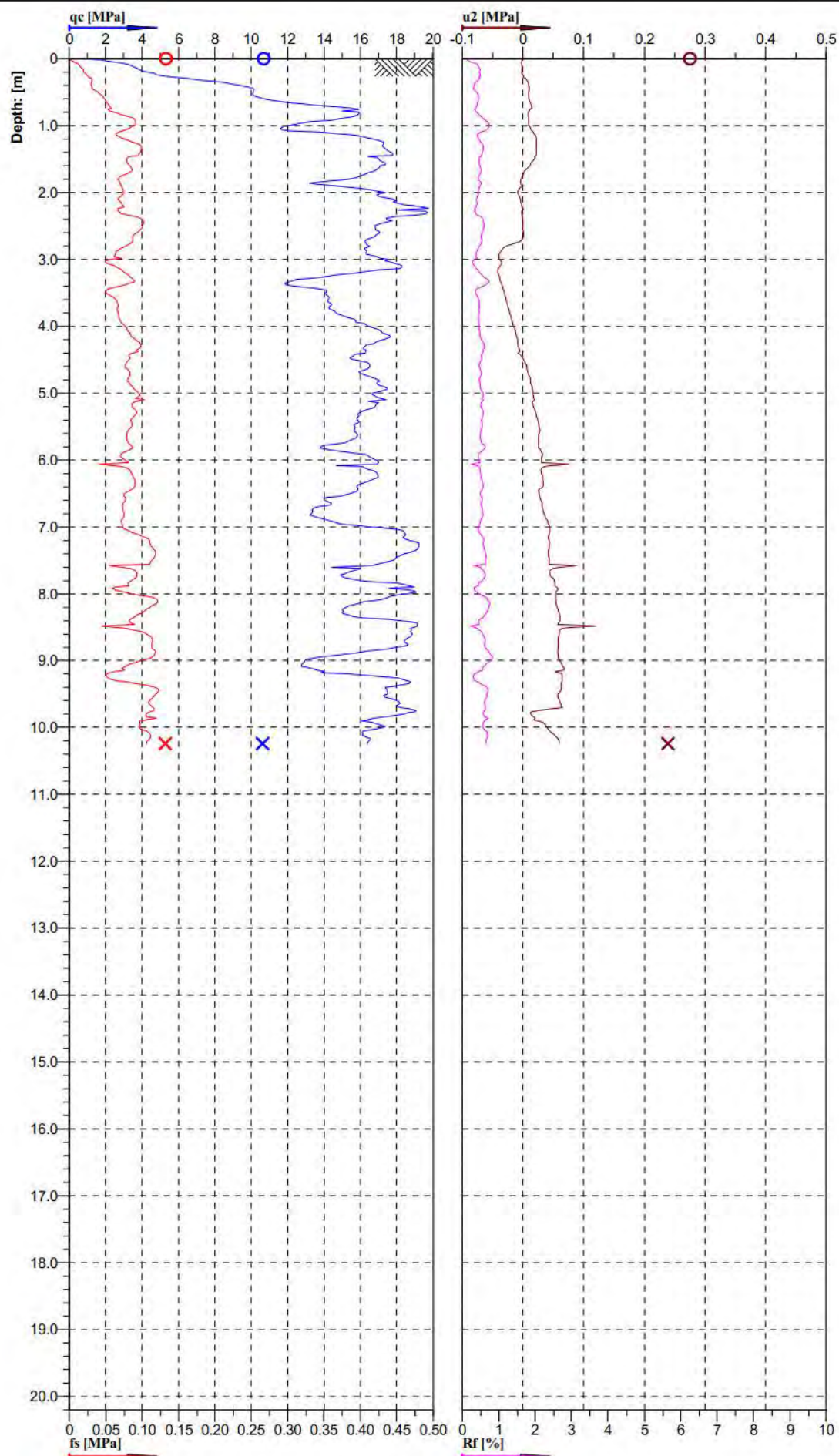
PRO-DRILL
SPECIALIST DRILLING SERVICES

Cone No: 4494
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location:	CHCH	Position:	X: 0.00 m, Y: 0.00 m	Ground level:	0.00	Test No.:	CPTPF49
Project ID:		Client:	AURECON	Date:	27/06/2016	Scale:	1 : 87
Project:	PRESTONS SOUTH			Page:	1/1	Fig.:	
				File:	PrestonsSouthCPTPF49.cpt		

 Silty sand to sandy silt (7)

Sand (9)



PRO-DRILL
A SPECIALTY OF THE PRO-DRILL SYSTEM



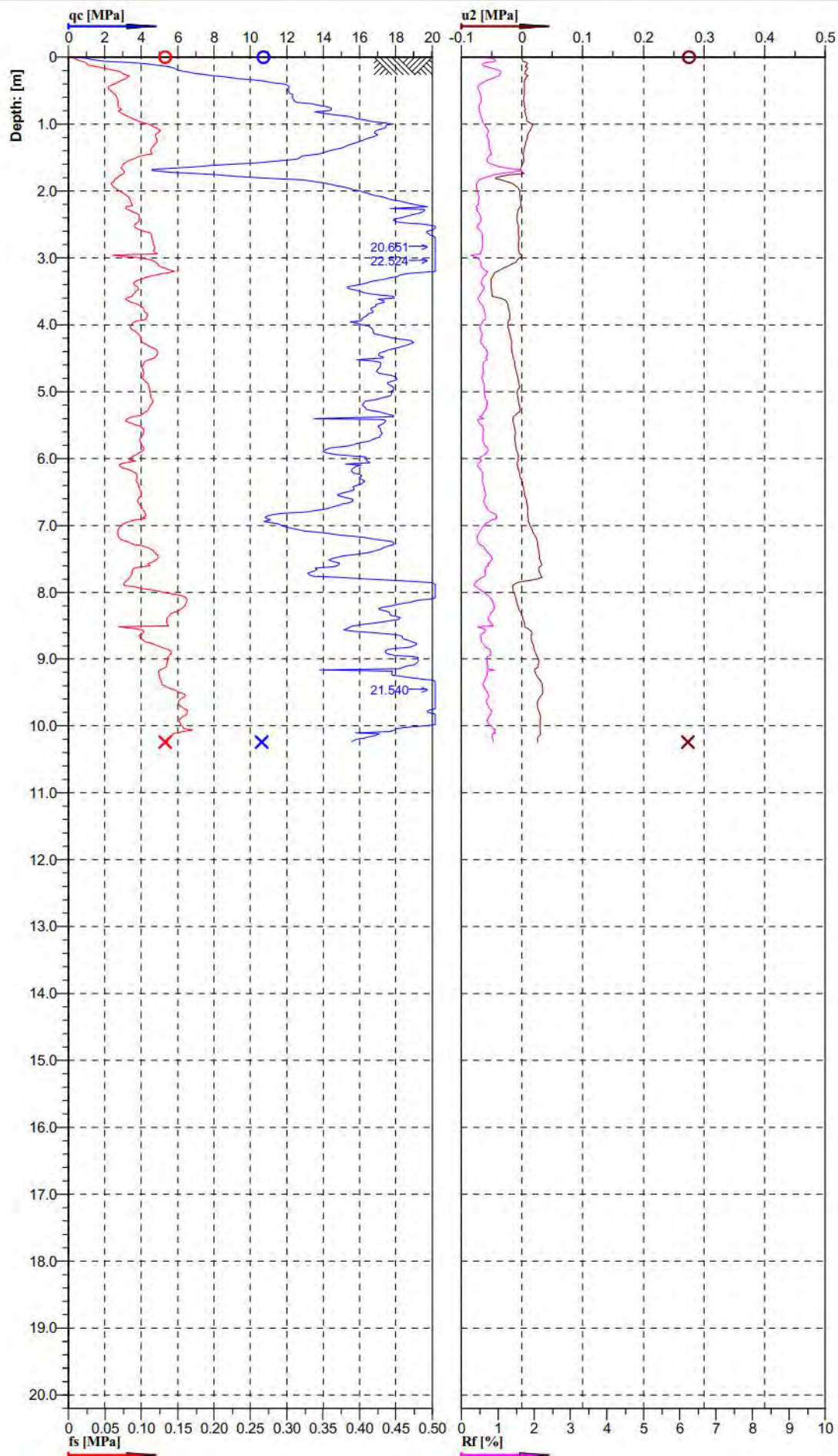
Cone No: 4494
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location: CHCH	Position: X: 0.00 m, Y: 0.00 m	Ground level: 0..00	Test No.: CPTPF50
Project ID:	Client: AURECON	Date: 27/06/2016	Scale: 1 : 87
Project: PRESTONS SOUTH		Page: 1/1	Fig.:
		File: PrestonsSouthCPTPF50.cpt	

Classification by
Robertson 1986

Sand to silty sand (8)

Sand (9)



PRO-DRILL
SPECIALIST DRILLING SERVICES



Cone No: 4494
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location:	CHCH	Position:	X: 0.00 m, Y: 0.00 m	Ground level:	0..00	Test No.:	CPTPF51
Project ID:		Client:	AURECON	Date:	27/06/2016	Scale:	1 : 87
Project:	PRESTONS SOUTH			Page:	1/1	Fig.:	
				File:	PrestonsSouthCPTPF51.cpt		



Appendix J

Verification CPT Logs

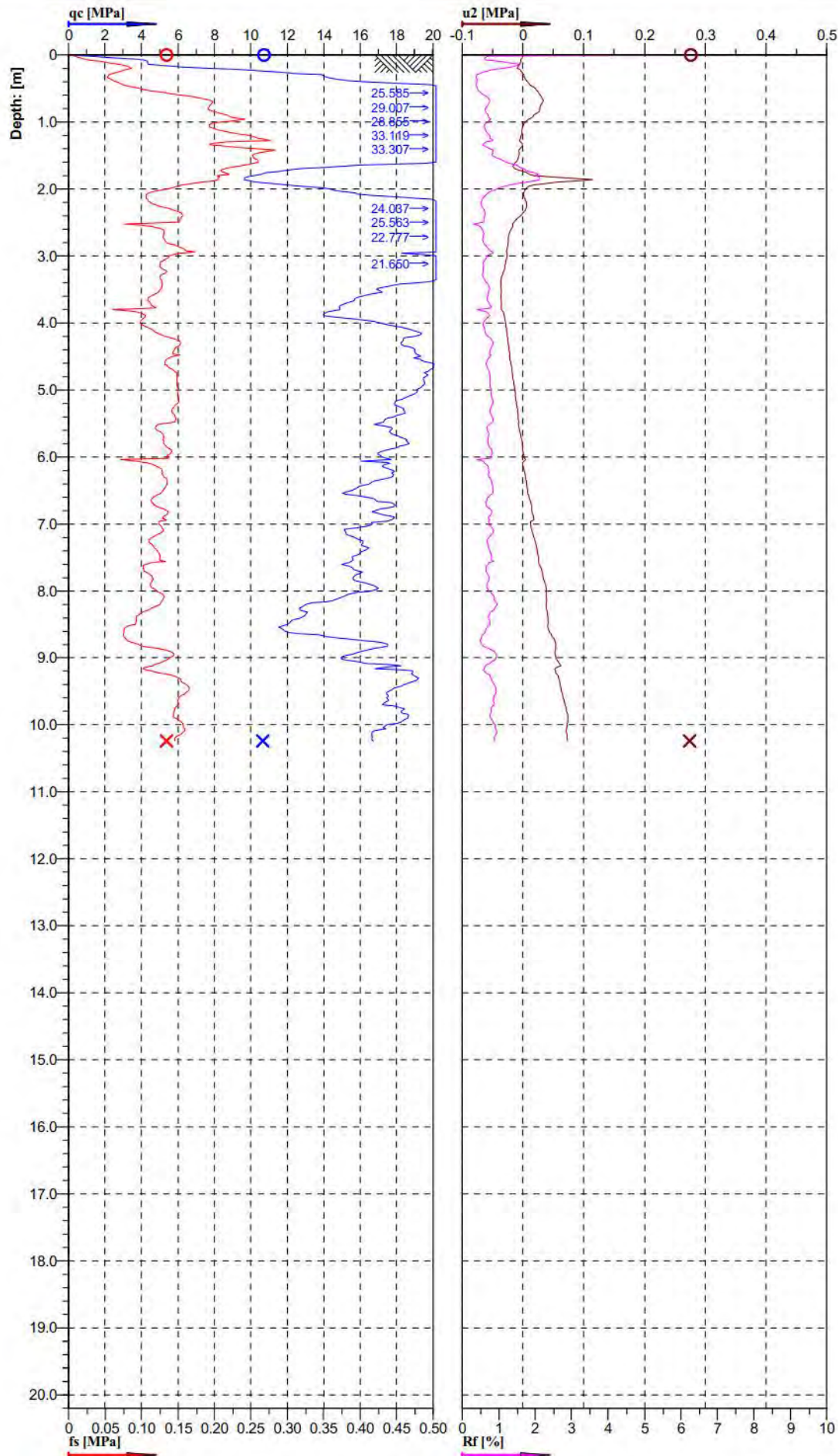
Classification by
Robertson 1986



Sand (9)

Silty sand to sandy silt (7)

Sand (9)



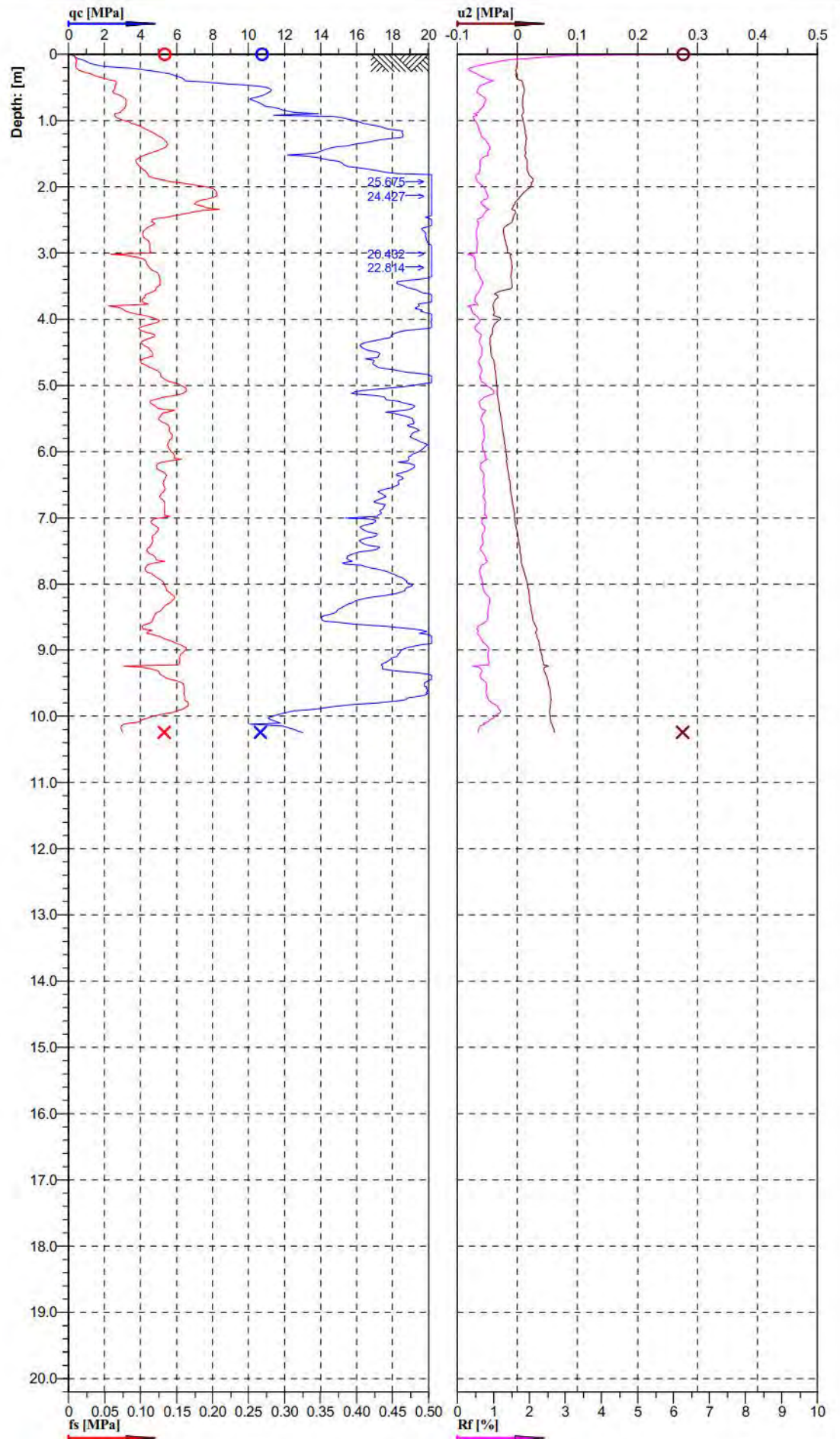
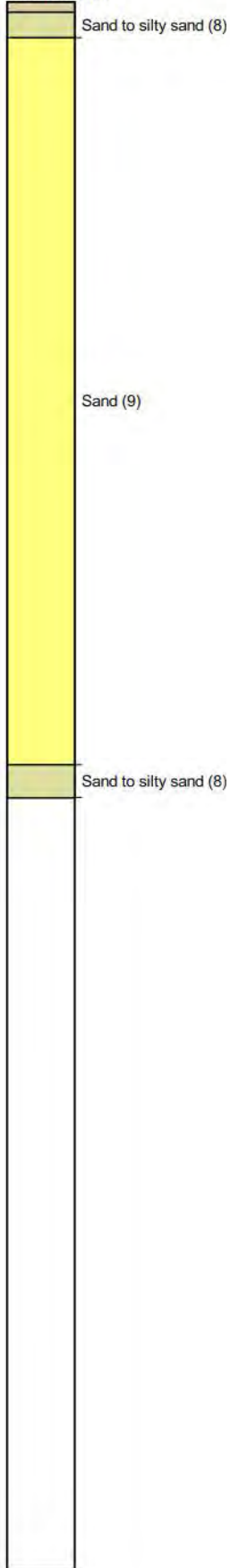
PRO-DRILL
SPECIALIST GEOTECHNICAL ENGINEERS



Cone No: 4494
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location:	CHCH	Position:	X: 0.00 m, Y: 0.00 m	Ground level:	0.00	Test No.:	CPTV19
Project ID:		Client:	AURECON	Date:	28/06/2016	Scale:	1 : 87
Project:	PRESTONS SOUTH			Page:	1/1	Fig.:	
				File:	PrestonsSouthCPTV19.cpt		

Classification by
Robertson 1986



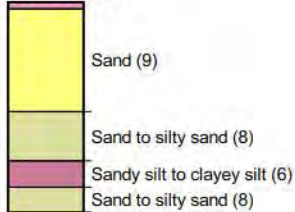
PRO-DRILL
SPECIALIST DRILLING SERVICES



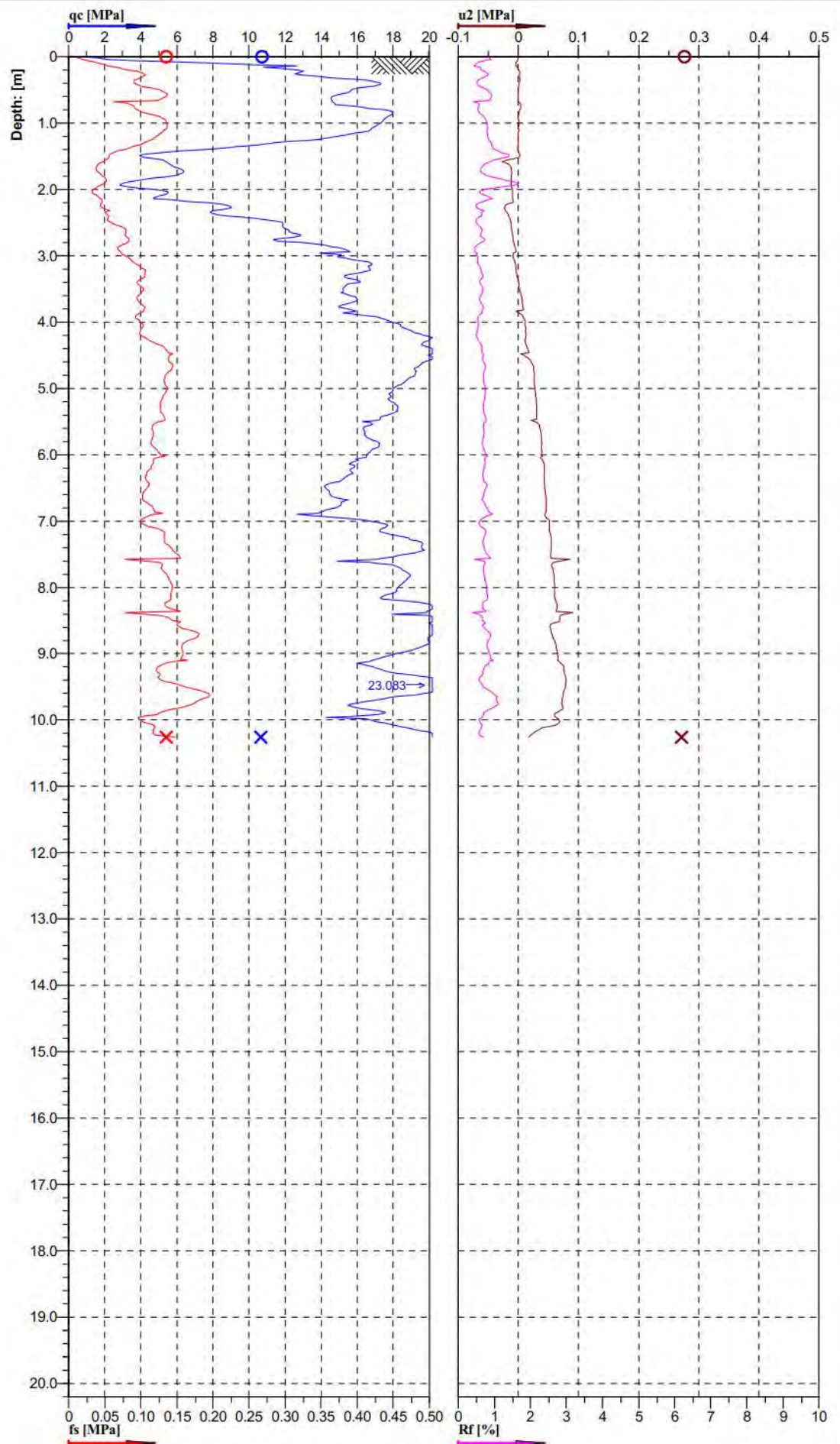
Cone No: 4494
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location:	CHCH	Position:	X: 0.00 m, Y: 0.00 m	Ground level:	0.00	Test No.:	CPTV20
Project ID:		Client:	AURECON	Date:	28/06/2016	Scale:	1 : 87
Project:	PRESTONS SOUTH			Page:	1/1	Fig.:	
				File:	PrestonsSouthCPTV20.cpt		

Classification by
Robertson 1986



Sand (9)



PRO-DRILL
SPECIALIST DRILLING SERVICES

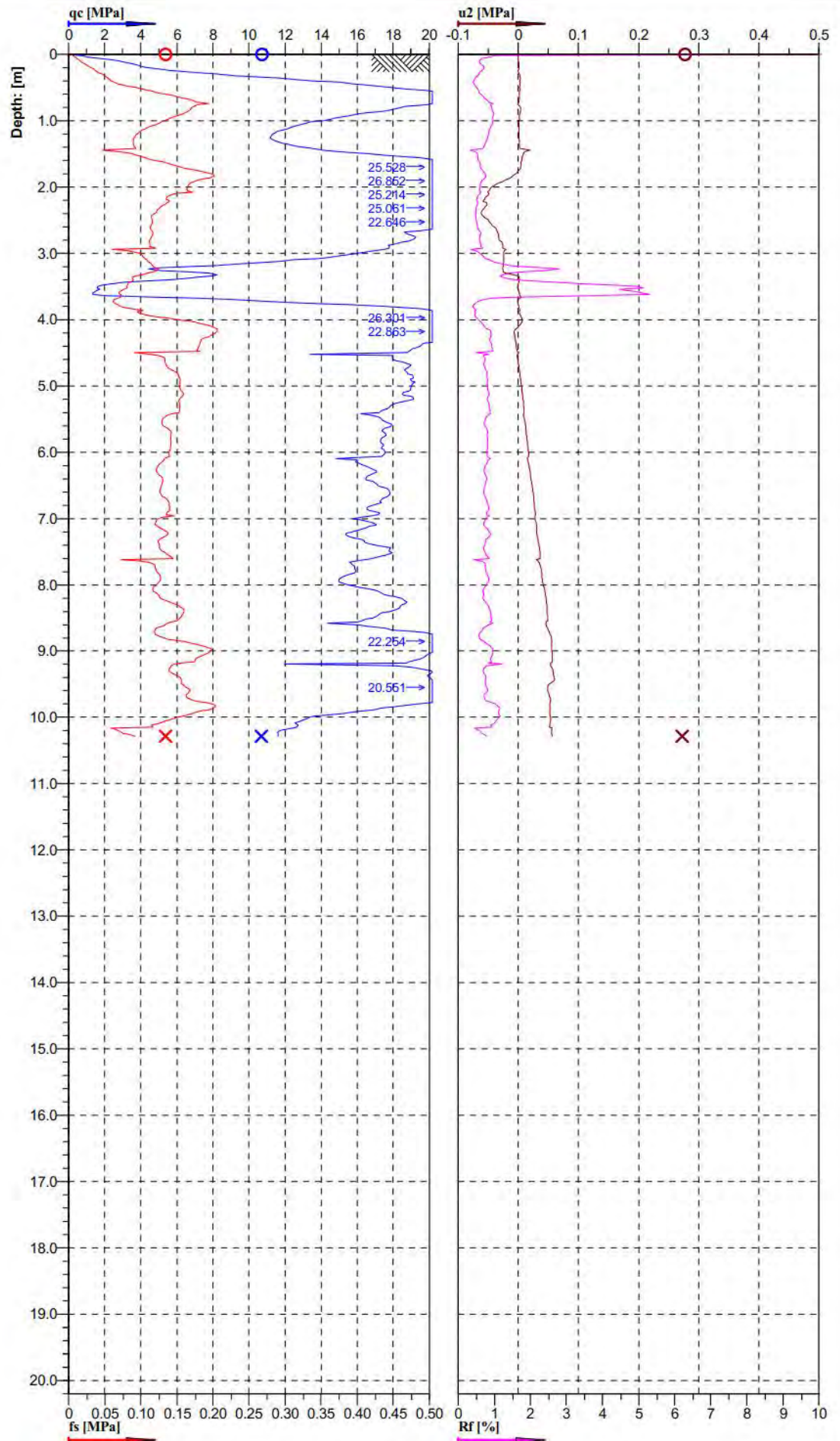


Cone No: 4494
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location:	CHCH	Position:	X: 0.00 m, Y: 0.00 m	Ground level:	0.00	Test No.:	CPTV21
Project ID:		Client:	AURECON	Date:	28/06/2016	Scale:	1 : 87
Project:	PRESTONS SOUTH			Page:	1/1	Fig.:	
				File:	PrestonsSouthCPTV21.cpt		

Classification by
Robertson 1986

Silty sand to sandy silt (7)
Sand (9)
Sand to silty sand (8)
Sand (9)
Sand to silty sand (8)
Clay (3)
Sand (9)
Sand to silty sand (8)



PRO-DRILL
SPECIALIST GEOTECHNICAL ENGINEERS

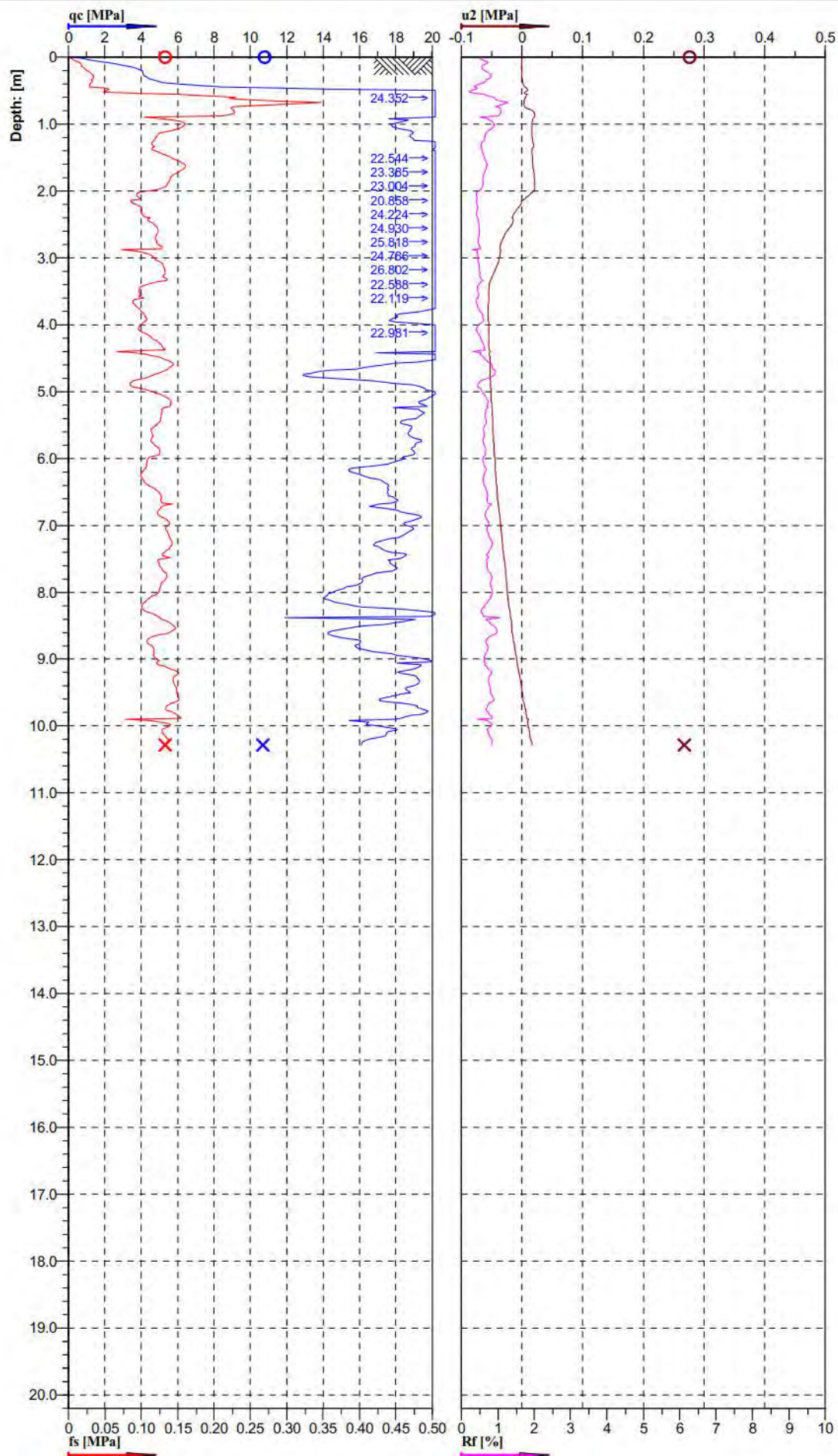
Cone No: 4494
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location:	CHCH	Position:	X: 0.00 m, Y: 0.00 m	Ground level:	0.00	Test No.:	CPTV22
Project ID:		Client:	AURECON	Date:	29/06/2016	Scale:	1 : 87
Project:	PRESTONS SOUTH			Page:	1/1	Fig.:	
				File:	PrestonsSouthCPTV22.cpt		

Classification by
Robertson 1986

Silty sand to sandy silt (7)

Sand (9)



PRO-DRILL
SPECIALIST DRILLING SERVICES



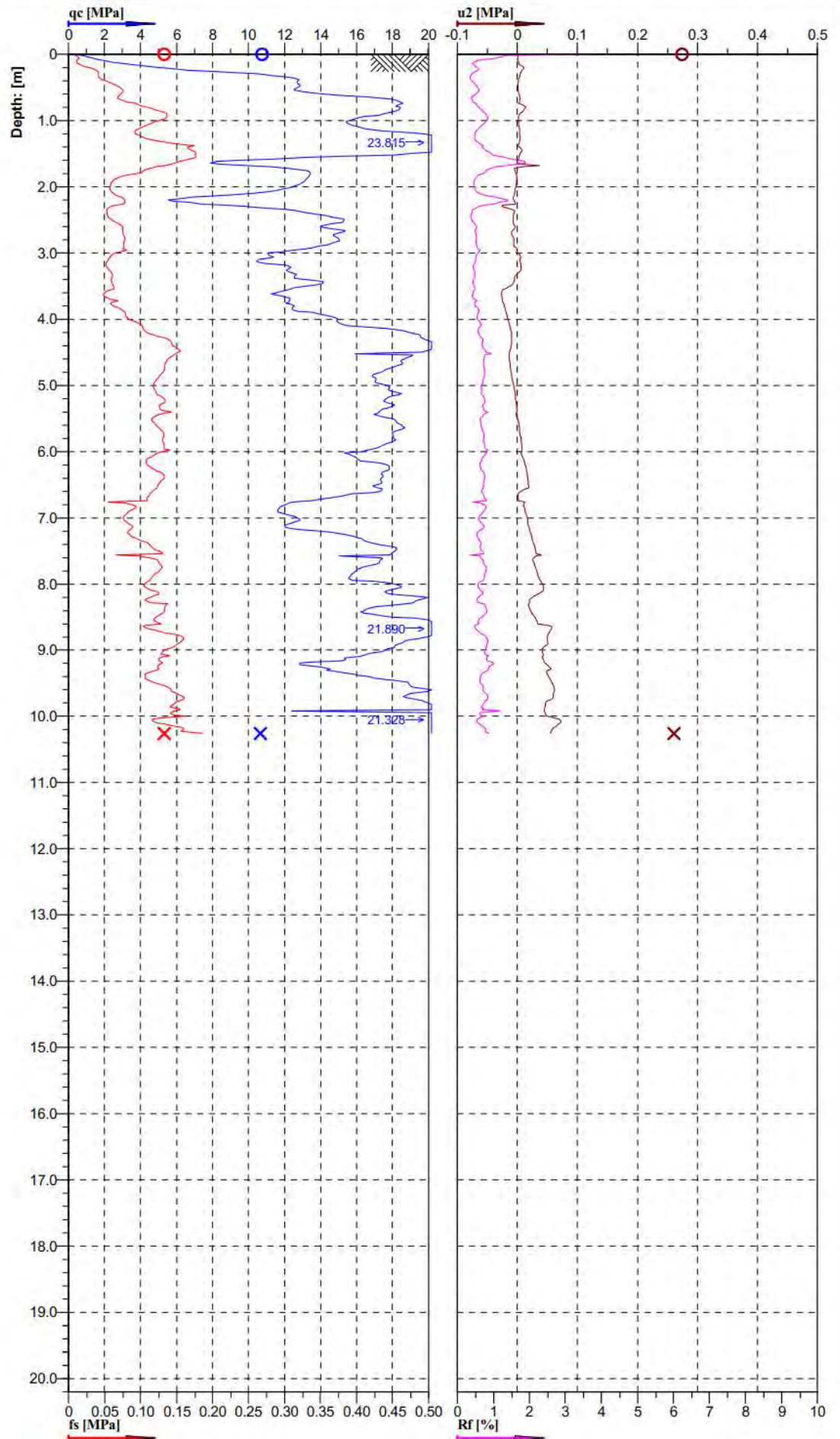
Cone No: 4494
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Sleeve area [cm²]: 150

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Project ID:		Client:	AURECON	Date:	28/06/2016	Scale:	1 : 87
Project:	PRESTONS SOUTH			Page:	1/1	Fig.:	
				File:	PrestonsSouthCPTV23.cpt		

Classification by
Robertson 1986

Silty clay to clay (4)

Sand (9)



PRO-DRILL
SPECIALIST DRILLING SERVICES



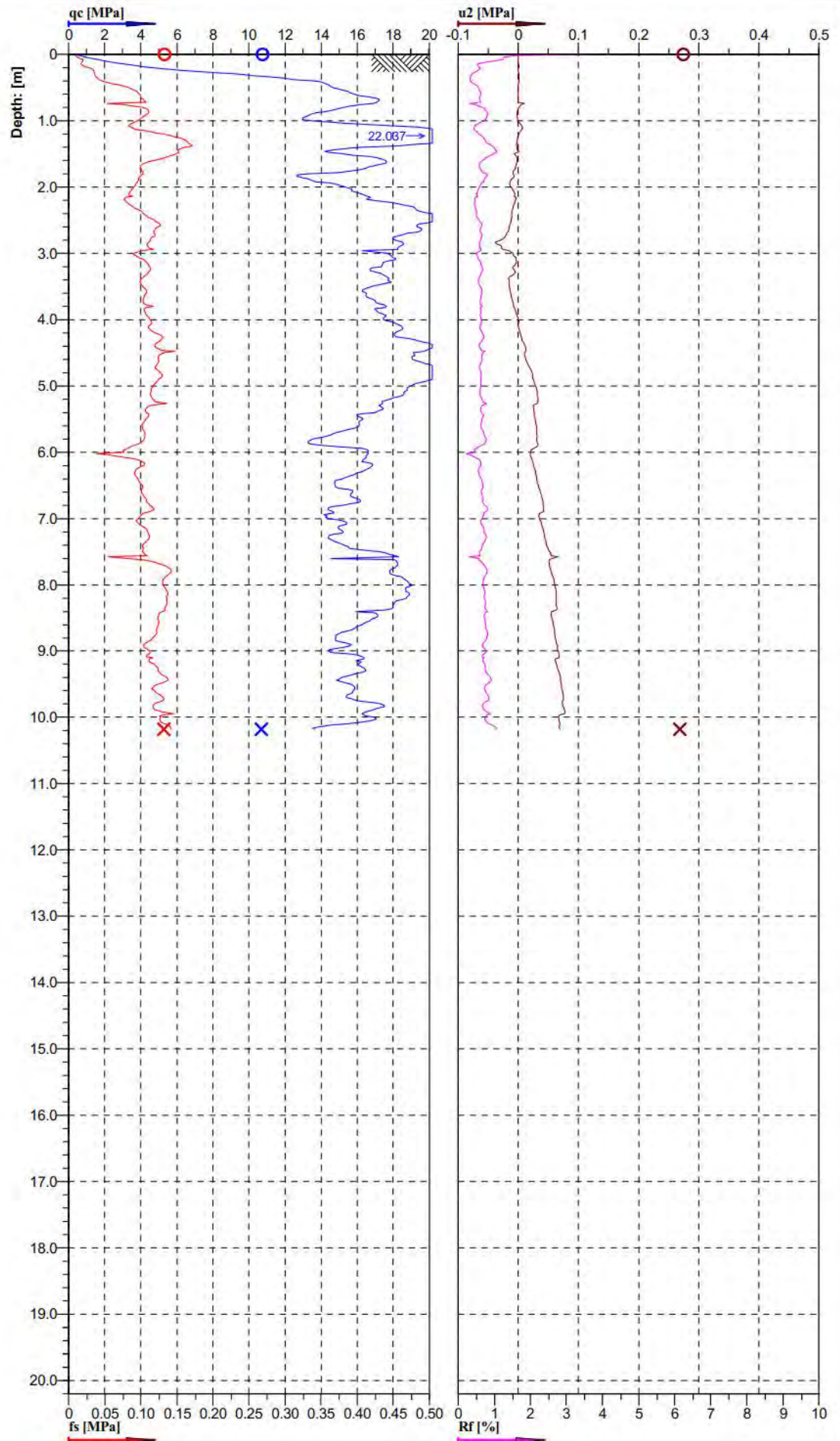
Cone No: 4494
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location:	CHCH	Position:	X: 0.00 m, Y: 0.00 m	Ground level:	0.00	Test No.:	CPTV24
Project ID:		Client:	AURECON	Date:	27/06/2016	Scale:	1 : 87
Project:	PRESTONS SOUTH			Page:	1/1	Fig.:	
				File:	PrestonsSouthCPTV24.cpt		

Classification by
Robertson 1986

Clayey silt to silty clay (5)

Sand (9)



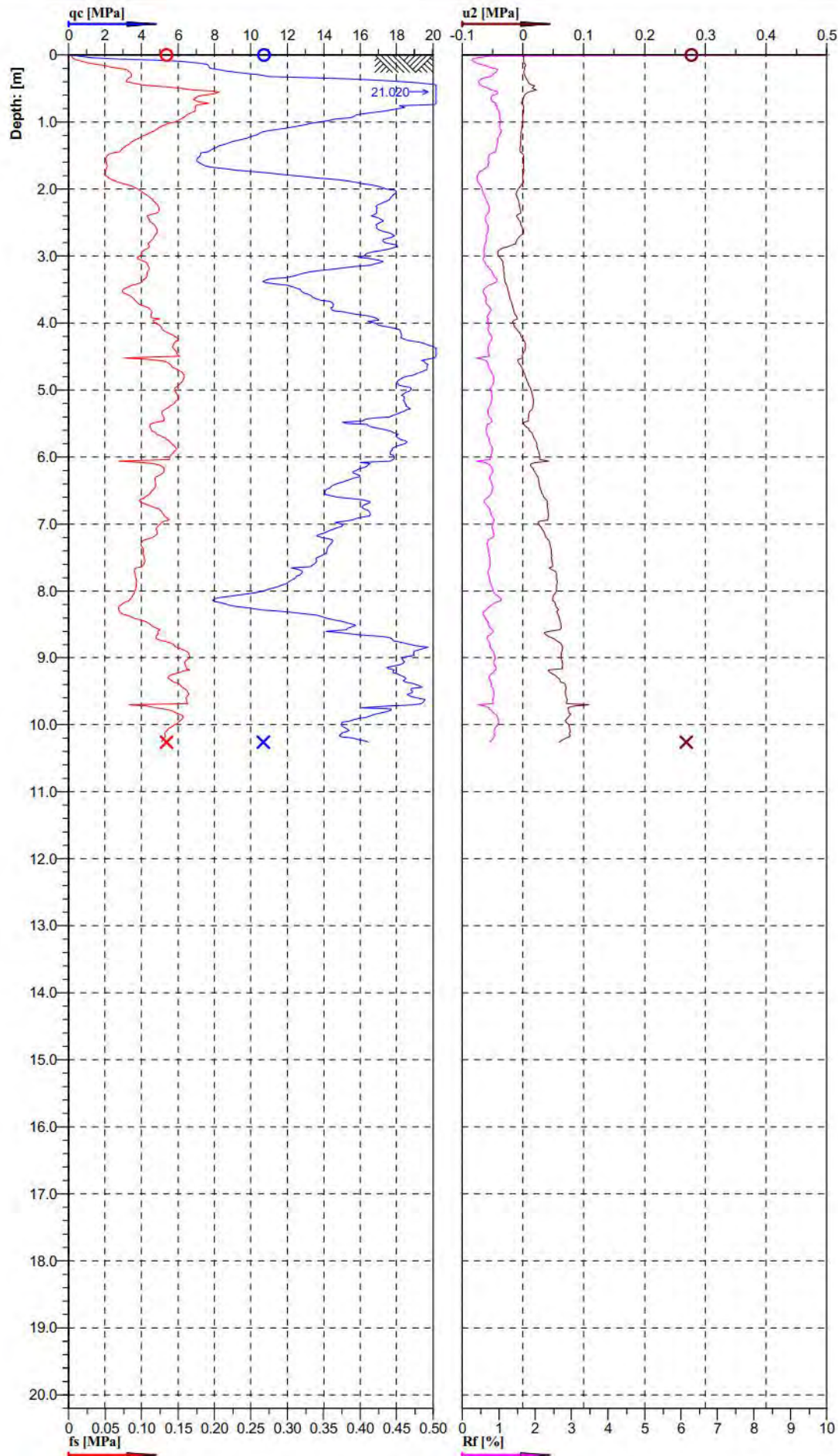
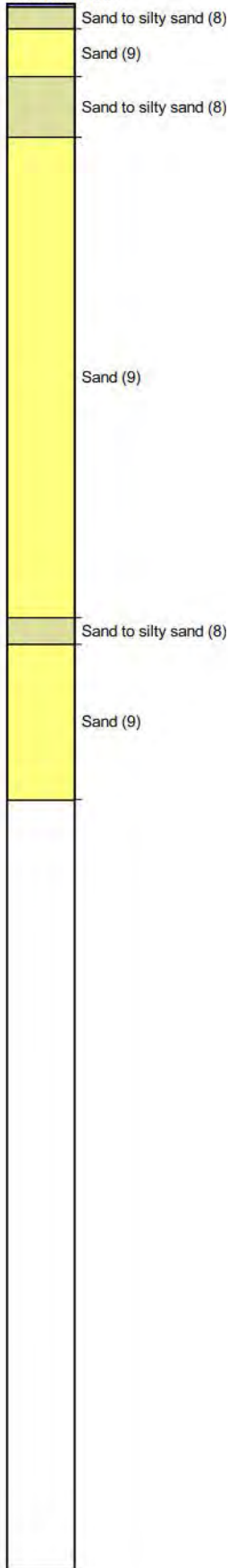
PRO-DRILL
SPECIALIST DRILLING SERVICES



Cone No: 4494
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location:	CHCH	Position:	X: 0.00 m, Y: 0.00 m	Ground level:	0.00	Test No.:	CPTV25
Project ID:		Client:	AURECON	Date:	27/06/2016	Scale:	1 : 87
Project:	PRESTONS SOUTH			Page:	1/1	Fig.:	
				File:	PrestonsSouthCPTV25.cpt		

Classification by
Robertson 1986



PRO-DRILL
SPECIALIST DRILLING SERVICES



Cone No: 4494
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location:	CHCH	Position:	X: 0.00 m, Y: 0.00 m	Ground level:	0.00	Test No.:	CPTV26
Project ID:		Client:	AURECON	Date:	29/06/2016	Scale:	1 : 87
Project:	PRESTONS SOUTH			Page:	1/1	Fig.:	
				File:	PrestonsSouthCPTV26.cpt		



Appendix K Certification

Statement of Professional Opinion on the Suitability of Land for Building Construction

ISSUED BY: Aurecon New Zealand Limited
TO: CDL Land New Zealand Limited
TO BE SUPPLIED TO: Christchurch City Council
IN RESPECT OF: Prestons South Subdivision Stage W, X & Y
AT: Prestons Road, Christchurch

I, Dr Jan Kupec, on behalf of Aurecon New Zealand Limited hereby confirm that:

1. I am a suitably qualified and experienced Geotechnical Engineer and my firm was retained by the developer to provide geotechnical engineering services on the above development.
2. The extent of my inspections, and the results of all tests carried out are as described in the geotechnical report *Geotechnical Completion Report Prestons South Stage W, X & Y*, Revision 0, Project No. 235361, dated 18 April 2017.
3. In my professional opinion, not to be construed as a guarantee and based only on the extent of our inspections and tests in accordance with our scope of services, I consider that:

(a) The completed works give due regard to land slope and foundation stability considerations.


(b) The original ground not affected by filling and the filled ground are suitable for the construction of a development/subdivision and are not subject to erosion, subsidence or slippage in accordance with the provisions of Section 106 of the Resource Management Act 1991 provided that the recommendations made in the Aurecon Report *Geotechnical Completion Report Prestons South Stage W, X & Y*, Revision 0, Project No. 235361, dated 18 April 2017.

4. This professional opinion is furnished to the territorial authority and the owner/developer for their purposes alone, on the express condition that it will not be relied upon by any other person and does not remove the necessity for the normal inspection of foundation conditions at the time of erection of any building.

5. This certificate shall be read in conjunction with my/the geotechnical report referred to in Clause 2 above, and shall not be copied or reproduced except in conjunction with the full geotechnical completion report.

6. The geotechnical engineering firm issuing this statement holds a current policy of professional indemnity insurance of no less than \$250,000.

(Minimum amount of insurance shall be commensurate with the current amounts recommended by IPENZ, ACENZ, TNZ, INGENIUM.)


(Signature of Engineer)

18 April 2017
(Date)

Qualifications and experience:

PhD, MSc, candIng, MIPENZ, CPEng (Geotechnical & Project Management), IntPE



Aurecon New Zealand Limited

Unit 1, 150 Cavendish Road
Casebrook Christchurch 8051

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Christchurch 8140
New Zealand

T +64 3 366 0821
F +64 3 379 6955
E christchurch@aurecongroup.com
W aurecongroup.com

Aurecon offices are located in:

Angola, Australia, Botswana, China,
Ghana, Hong Kong, Indonesia, Kenya,
Lesotho, Macau, Mozambique,
Namibia, New Zealand, Nigeria,
Philippines, Qatar, Singapore, South Africa,
Swaziland, Tanzania, Thailand, Uganda,
United Arab Emirates, Vietnam.

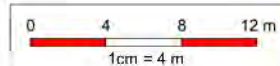
Lot 763
DP 509330

Lot 760
DP 509330

72

Lot 3118
DP 73E9330

74



1 : 400 on A4

Jul 18, 2018 9:26:23 AM

Christchurch
City Council

ph: 941-8300 fax: 941-8385

Accuracy not guaranteed. Onsite
verification required. Display of data scale
dependent, full detail available at 1:500.

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Private Drainage

Standard Infrastructure

Bio Gas
Condensate Trap
End Cap
Inlet
Outlet
Valve
Main
Cable

Water Intake/Supply

Connector
Bellows
Connector
Hydrant

Water Intake/Supply

Inlet
Meter
Outlet
Pump
Restrictor
Valve
Air Release
Butterfly
Flow restriction
Gate
Pressure Activated
Sluice
Valve
Reservoir
Structure
Lateral
Main
Sub Main

Wastewater

End Cap
Valve
Air Gap Separator
Vent
Eye
Eye (Vertical)
Outfall
Pump
Junction
Access
Flush Manhole
Inspection Point
Standard Manhole
Trap
Vented Manhole
Lateral
Main
Pressure Main

Wastewater

Lateral Fitting
Local Pressure
Control Panel
Boundary Kit
Tank System
Site
Vacuum Chamber
Vacuum Breather

Stormwater

Bend
Change
Eye
Flow Restriction
Inlet
Drma Sump
Double Sump
Gross Debris Trap

Stormwater

Inlet
Inlet Headwall
Pipe End
Silt Trap
Single Sump
Soak Pit
Triple Sump
Junction
Standard Manhole
Outlet
Pump
Structure
Basin
Lateral
Main
Lateral Fitting
Double Sump

Stormwater

Lateral Fitting
Single Sump
Soak Pit
Inspection point
Manhole
All services
Pipe Protection
Abandoned
Proposed
Out of service
Landbase
Easement



74 Prestons Park Drive Land Use Consents

13
Pajet
Street

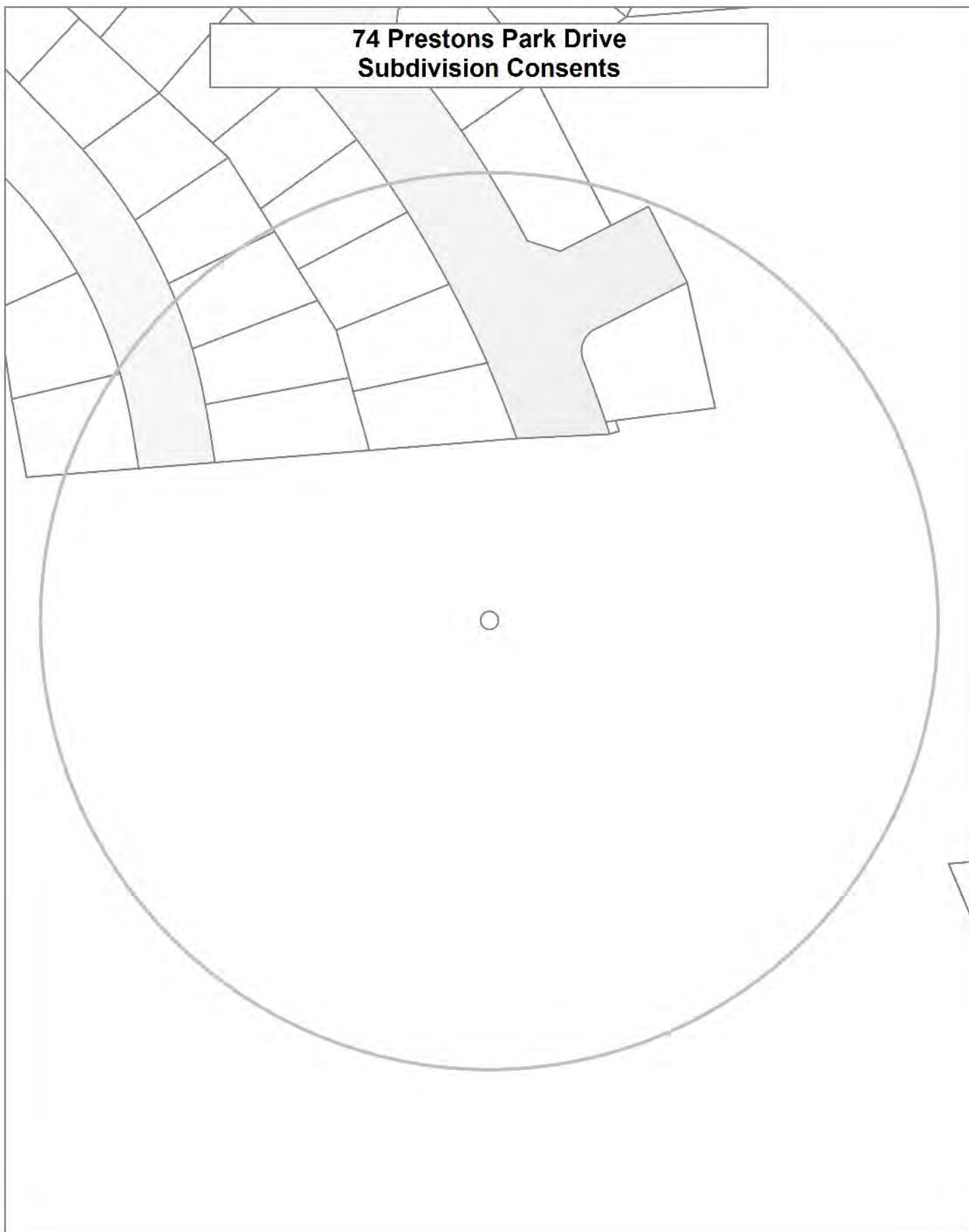
68
Prestons Park
Drive

17
Pajet
Street





**74 Prestons Park Drive
Subdivision Consents**



Land Use Resource Consents within 100 metres of 74 Prestons Park Drive

Note: This list does not include subdivision Consents and Certificates of Compliance issued under the Resource Management Act.

13 Pajet Street

RMA/2018/479

To construct a new dwelling

Processing complete

Applied 28/02/2018

Decision issued 13/03/2018

Granted 12/03/2018

153 Mairehau Road

RMA/2017/2545

To construct buildings on Lots 291-294, 312-318 and 377-389 (Stage 2) up to 4 m from the Mairehau Road boundary and with a reduced landscaping strip of 2m in width

Processing complete

Applied 17/10/2017

Decision issued 17/01/2018

Granted 17/01/2018

17 Pajet Street

RMA/2018/1690

Construct dwelling with attached garage

Awaiting payment

Applied 16/07/2018

68 Prestons Park Drive

RMA/2007/1414

Overseas Investment Certificate - Historical Reference RMA92008676

Processing complete

Applied 12/06/2007

Decision issued 13/06/2007

Granted 13/06/2007

Data Quality Statement

Land Use Consents

All resource consents are shown for sites that have been labelled with an address. For sites that have been labelled with a cross (+) no resource consents have been found. Sites that have no label have not been checked for resource consents. This will be particularly noticeable on the margins of the search radius. If there are such sites and you would like them included in the check, please ask for the LIM spatial query to be rerun accordingly. This will be done free of charge although there may be a short delay. Resource consents which are on land occupied by roads, railways or rivers are not, and currently cannot be displayed, either on the map or in the list. Resource consents that relate to land that has since been subdivided, will be shown in the list, but not on the map. They will be under the address of the land as it was at the time the resource consent was applied for. Resource consents that are listed as Non-notified and are current, may in fact be notified resource consents that have not yet been through the notification process. If in doubt. Please phone (03)941 8999.

The term “resource consents” in this context means land use consents. Subdivision consents and certificates of compliance are excluded.

Subdivision Consents

All subdivision consents are shown for the sites that have been labelled with consent details. For Sites that have been labelled with a cross (+) no records have been found. Sites that have no label have not been checked for subdivision consents. This will be particularly noticeable on the margins of the search radius. If there are such sites and you would like them included in the check, please ask for the LIM spatial query to be rerun accordingly. This will be done free of charge although there may be a short delay.

The term “subdivision consents” in this context means a resource consent application to subdivide land. Non subdivision land use resource consents and certificates of compliance are excluded.

This report will only record those subdivision applications which have not been completed i.e once a subdivision has been given effect to and the new lots/properties have been established the application which created those lots will not be shown

All subdivision consent information is contained on the map and no separate list is supplied