

FINE spol. s r.o. Závěrka 12,Praha 6,169 00			Log of Boring			BH1	
Project: Geological Survey - "Deer House"							
Project ID: 2018_A-017		Annex no.: A.1G		Drilling equipment: Hütte 202 TF			
Location: Prague 12			Overall depth: 24,00 m		Borehole position: Coordinate X: 1039757,71 Coordinate Y: 745144,86 Coordinate Z: 209,05 m		
Date start: 22.11.2017	Foreman: Mr. Young			Ground water table:			
Date end: 23.11.2017	Documented: Mr. Smith			GWT bored: 15,80 m			
Scale: one page			GWT steady: 12,50 m				
Drilling:			Casing:				
Depth from	Depth to	Drilling dia.	Depth from	Depth to	Casing dia.		
0,00 m	20,00 m	195 mm	0,00 m	20,00 m	191 mm		
20,00 m	24,00 m	156 mm					

Stratigraphy	BH1	Samples and GWT	Classification according to EN ISO 14688-1	RQD [%]	From - To	Layers description	Notes
Recent	Fill	2086	saCl		0,00 - 4,90	Fill: fine grained SAND with some silt, dense, mixed with cobbles of concrete and pieces of bricks partly the size is larger than the borehole diameter, black colour of the soil	Easy drilling
			Gr		4,90 - 6,40	Fill: coarse GRAVEL with some silt (clayey shale) and fresh angular cobbles up to 15 cm, dark grey colour	
Quaternary	Sand with trace of fines	2087	Sa	-	6,40 - 8,60	Sand with trace of fines: medium grained with some fine soil, dense, rust-brown	
			grCl		8,60 - 9,60	Gravelly clay: hard, gravel particles up to 10 mm (weathered shale), brown	
			sasiCl		9,60 - 10,50	Sandy clay: hard, with some pieces of gravel (quartz) up to 50 mm dia., brown	
			saCl		10,50 - 12,00	Sandy clay: with some gravel, hard, gravel - sub angular shale up to 10 mm, sand is fine, mica included, brown colour	
Ordovician	Shale, fully weathered	12,50	grCl		12,00 - 14,80	Shale, fully weathered: residual soil, clay character with small particles of shale up to 5 mm, gravel parts are weathered, grey	Loosing of drilling fluid
					14,80 - 15,80	Shale, weathered: in borehole core small planes, gently inclines, parts 10-50 mm, weak strength, micas and limonite on foliation planes, brown/rust	
					15,80 - 19,30	Shale, moderately weathered: layered, drill sharp fragments 10-50 mm, gently inclines, weak/moderately strong, wet, dark grey	
					19,30 - 24,00	Shale, slightly weathered: moderate strong, fine layered, steeply inclined, wet (saturated – under water table), dark grey	

Key:

▽ GWT bored	⊠ undisturbed
▲ GWT steady	⊞ disturbed
	⊞ rock strength

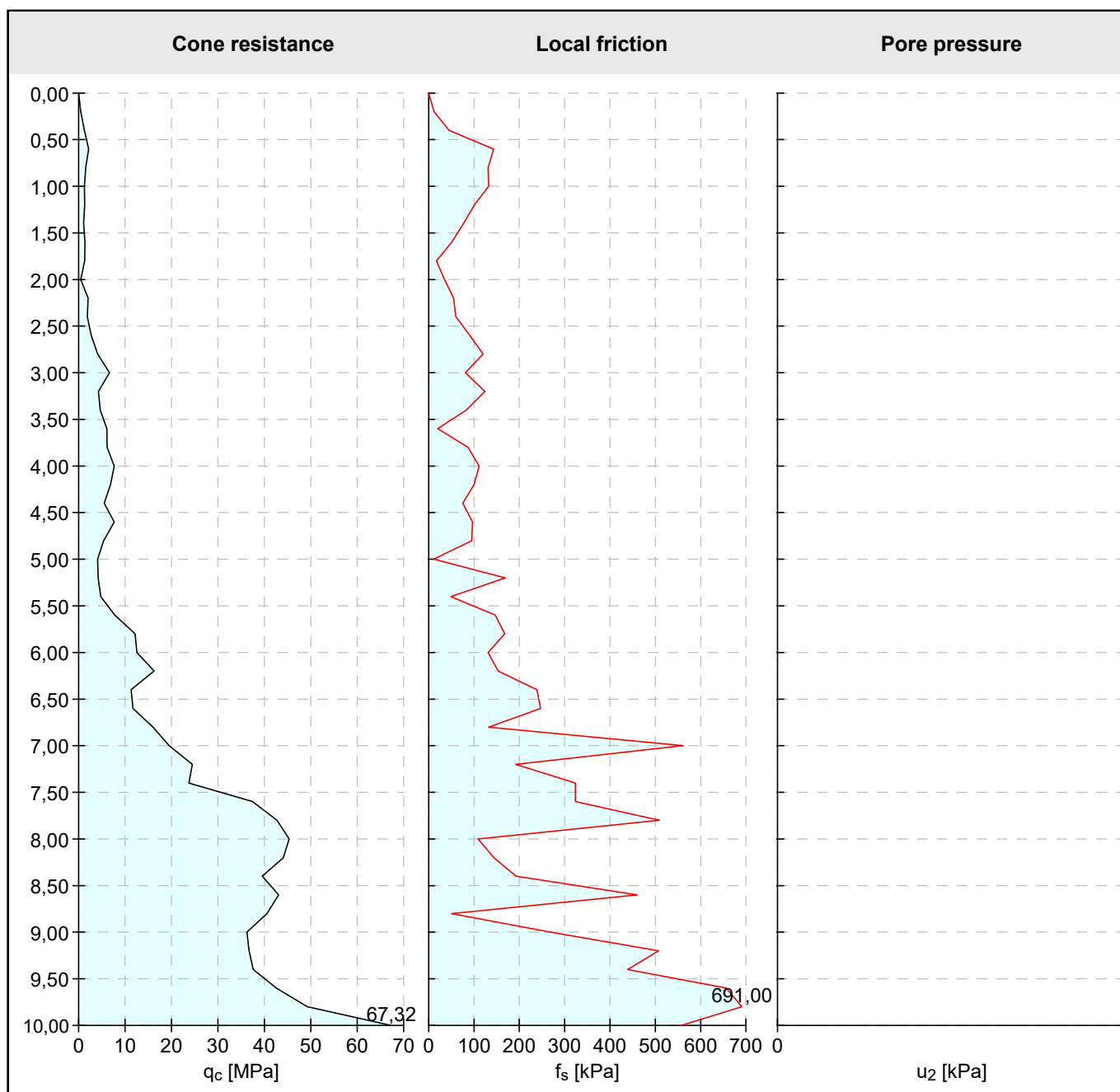
FINE spol. s r.o. Závěrka 12,Praha 6,169 00			Log of Boring			BH1
Project: Geological Survey - "Deer House"						
Project ID: 2018_A-017		Annex no.: A.1G		Drilling equipment: Hütte 202 TF		
Location: Prague 12			Overall depth: 24,00 m		Borehole position: Coordinate X: 1039757,71 Coordinate Y: 745144,86 Coordinate Z: 209,05 m	
Date start: 22.11.2017	Foreman: Mr. Young		Ground water table: GWT bored: 15,80 m			
Date end: 23.11.2017	Documented: Mr. Smith					
Scale: one page			GWT steady: 12,50 m			
Drilling:			Casing:			
Depth from	Depth to	Drilling dia.	Depth from	Depth to	Casing dia.	
0,00 m	20,00 m	195 mm	0,00 m	20,00 m	191 mm	
20,00 m	24,00 m	156 mm				

Stratigraphy	Field test BH1	Samples and GWT	Classification according to EN ISO 14688-1	From - To	Stratigraphy	Soil profile BH1	Samples and GWT	From - To	Notes
Recent	Fill	2086	saCl	0,00 - 4,90	Recent	Fill	2086	0,00 - 6,40	Easy drilling
			Gr	4,90 - 6,40					
Quaternary	Sand with trace of fines	2087	Sa	6,40 - 8,60	Quaternary	Sand with trace of fines	2087	6,40 - 12,00	
	Gravelly clay		grCl	8,60 - 9,60					
	Sandy clay		sasiCl	9,60 - 10,50					
	Sandy clay		saCl	10,50 - 12,00					
Ordovician	Shale, fully weathered	12,50	grCl	12,00 - 14,80	Ordovician	Shale, fully weathered	12,50	12,00 - 15,80	Loosing of drilling fluid
	Shale, weathered			14,80 - 15,80					
	Shale, moderately weathered	15,80		15,80 - 19,30		Shale, moderately weathered	15,80	15,80 - 19,30	
	Shale, slightly weathered			19,30 - 24,00				19,30 - 24,00	
		2095					2095		

Key:

▽ GWT bored	⊠ undisturbed
▲ GWT steady	⊠ disturbed
	⊠ rock strength

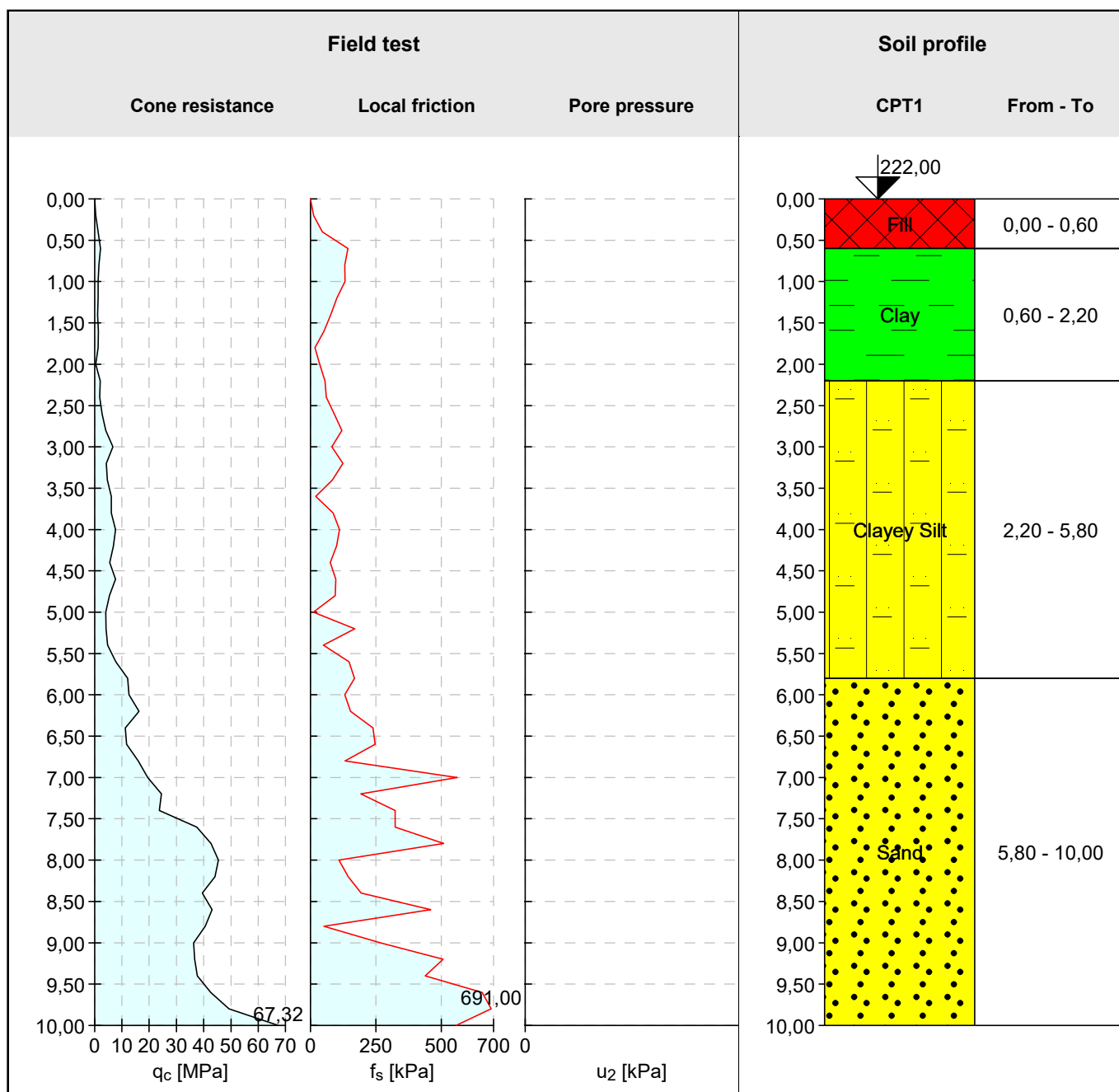
FINE spol. s r.o. Závěrka 12, Praha 6, 169 00		Cone penetration test (CPT)		CPT1
Project: Geological Survey - "Deer House"				
Project ID: 2018_A-017		Annex no.: 17.C		Type of test: TE2
Location: Stará 14/78, Hradec Králové		Type of cone: Ac=1000 mm ²		
Measured: Joe Fieldman		Coordinate system: S-JTSK / Balt after adjustment		Application class: 2
Evaluated: Bill New		Coordinate X: 1039700,63		Acc. to standard: EN ISO 22476-1
Date of test: 10.08.2016		Coordinate Y: 745200,84		Depth of 1. point: 0,00 m
Scale: one page		Coordinate Z: 222,00 m		Overall depth: 10,00 m
Equipment: PenSta A22		Filter location: u ₂		GWT: 5,00 m



Notes:

- Sunny/ Partially cloudy/ Calm
- Raw data not modified

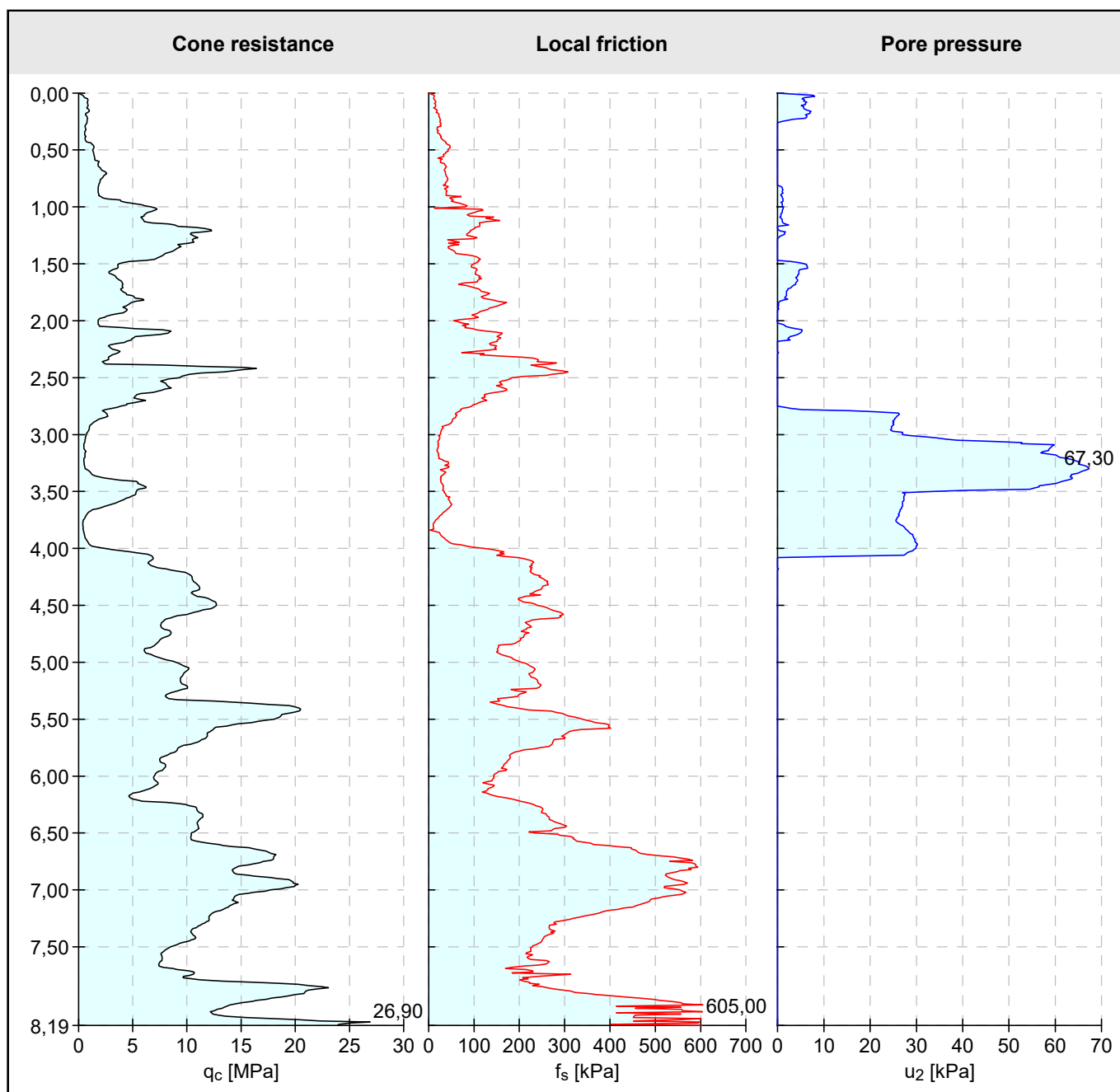
FINE spol. s r.o. Závěrka 12, Praha 6, 169 00		Cone penetration test (CPT)		CPT1
Project: Geological Survey - "Deer House"				
Project ID: 2018_A-017		Annex no.: 17.C		Type of test: TE2
Location: Stará 14/78, Hradec Králové		Type of cone: Ac=1000 mm ²		
Measured: Joe Fieldman		Coordinate system: S-JTSK / Balt after adjustment		Application class: 2
Evaluated: Bill New		Coordinate X: 1039700,63		Acc. to standard: EN ISO 22476-1
Date of test: 10.08.2016		Coordinate Y: 745200,84		Depth of 1. point: 0,00 m
Scale: one page		Coordinate Z: 222,00 m		Overall depth: 10,00 m
Equipment: PenSta A22		Filter location: u ₂		GWT: 5,00 m



Notes:

- Sunny/ Partially cloudy/ Calm
- Raw data not modified

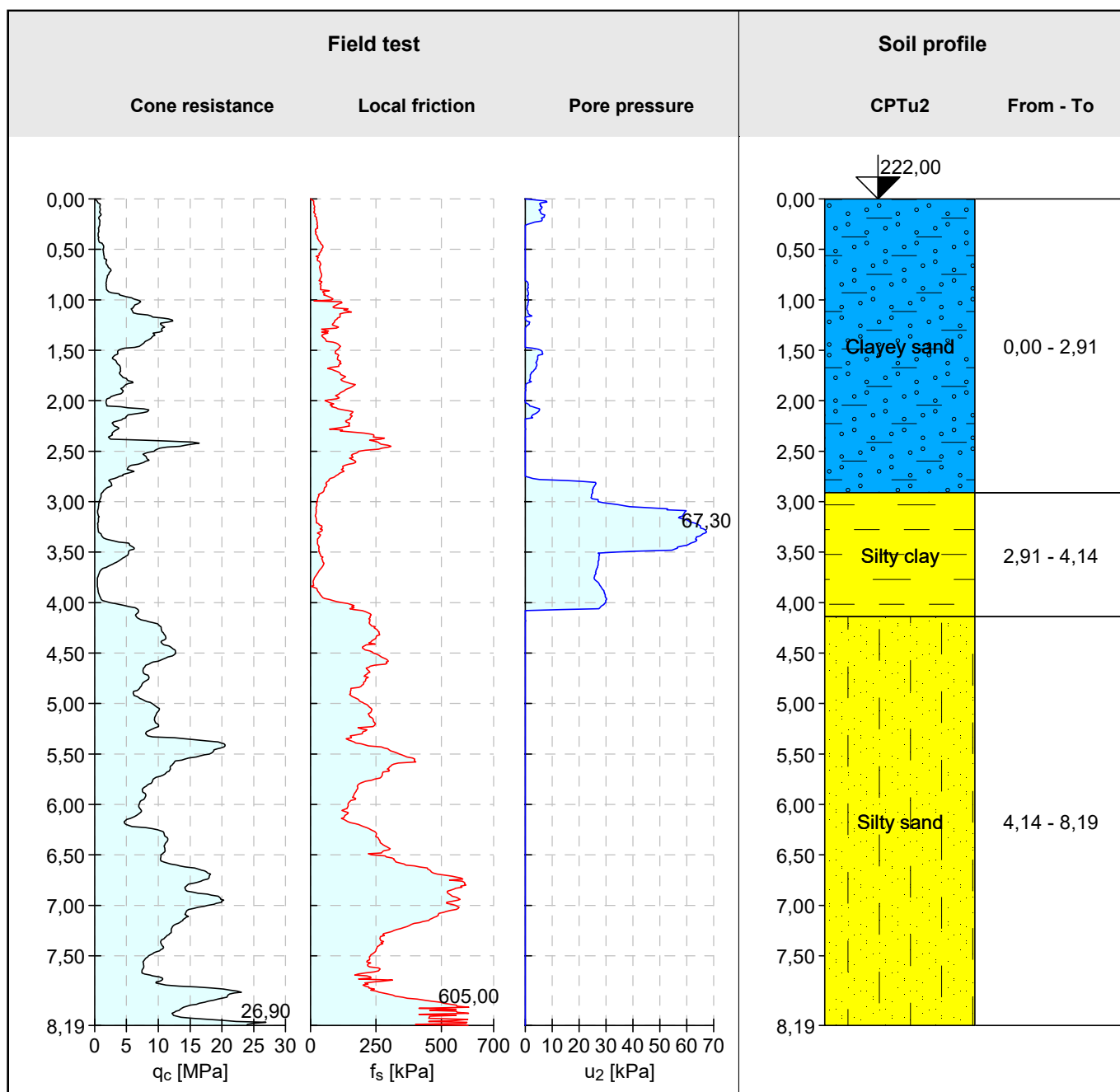
FINE spol. s r.o. Závěrka 12, Praha 6, 169 00		Cone penetration test (CPT)		CPTu2
Project: Geological Survey - "Deer House"				
Project ID: 2018_A-017		Annex no.: 17.C		Type of test: TE2
Location: Stará 14/78, Hradec Králové		Type of cone: Ac=1000 mm ²		
Measured: Joe Fieldman		Coordinate system: S-JTSK / Balt after adjustment		Application class: 2
Evaluated: Bill New		Coordinate X: 1039714,63		Acc. to standard: EN ISO 22476-1
Date of test: 10.08.2017		Coordinate Y: 745201,84		Depth of 1. point: 0,00 m
Scale: one page		Coordinate Z: 222,00 m		Overall depth: 8,19 m
Equipment: PenSta A22		Filter location: u ₂		GWT: 5,00 m



Notes:

- Sunny/ Partially cloudy/ Calm
- Raw data not modified

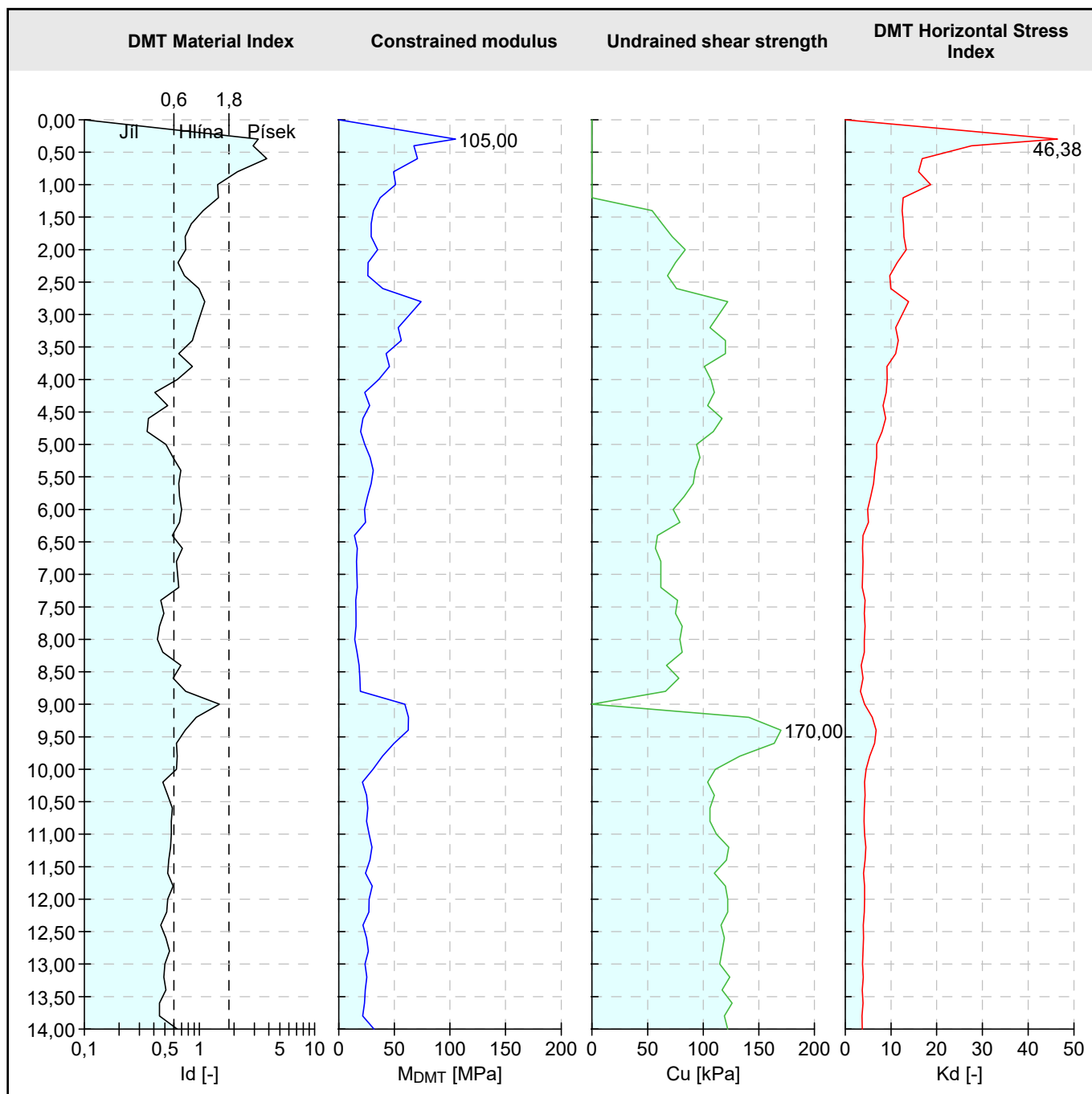
FINE spol. s r.o. Závěrka 12, Praha 6, 169 00		Cone penetration test (CPT)		CPTu2
Project: Geological Survey - "Deer House"				
Project ID: 2018_A-017		Annex no.: 17.C		Type of test: TE2
Location: Stará 14/78, Hradec Králové		Type of cone: Ac=1000 mm ²		
Measured: Joe Fieldman		Coordinate system: S-JTSK / Balt after adjustment		Application class: 2
Evaluated: Bill New		Coordinate X: 1039714,63		Acc. to standard: EN ISO 22476-1
Date of test: 10.08.2017		Coordinate Y: 745201,84		Depth of 1. point: 0,00 m
Scale: one page		Coordinate Z: 222,00 m		Overall depth: 8,19 m
Equipment: PenSta A22		Filter location: u ₂		GWT: 5,00 m



Notes:

- Sunny/ Partially cloudy/ Calm
- Raw data not modified

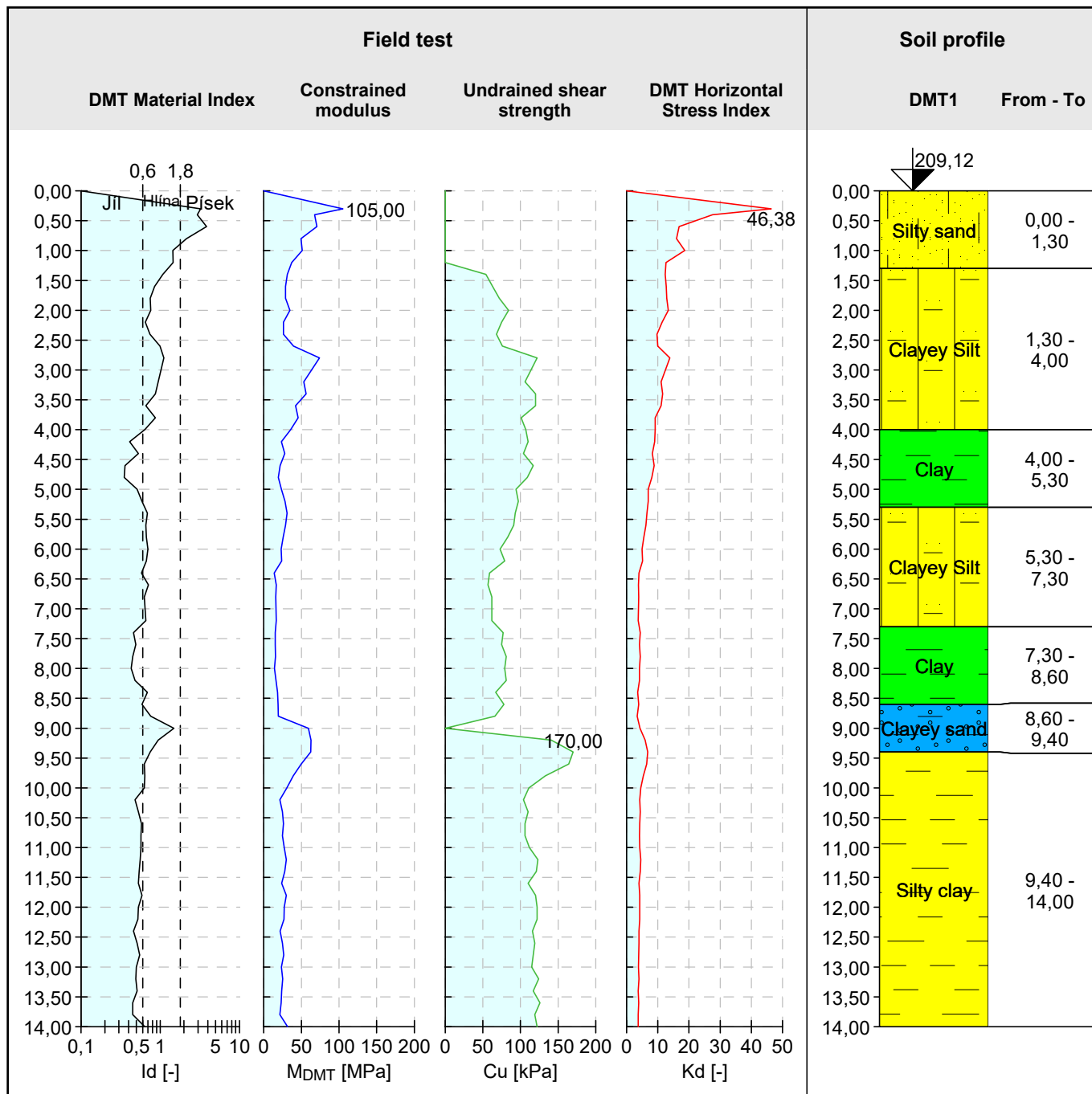
FINE spol. s r.o. Závěrka 12, Praha 6, 169 00		Dilatometer test (DMT)		DMT1
Project: Geological Survey - "Deer House"				
Project ID:	2018_A-017	Annex no.:	21/c7.	Overall depth: 14,00 m
Location:	New street 22/ Liberec			Acc. to standard: EN ISO 22476-11
Measured:	Bill Fieldman	Coordinate X: 1039757,12		Calibration pressure: ΔA_{ini}: 11,00 kPa ΔB_{ini}: 24,00 kPa ΔA_{end}: 18,00 kPa ΔB_{end}: 64,00 kPa
Evaluated:	Joe Freeman	Coordinate Y: 745165,25		
Date of test:	11.10.2016	Coordinate Z: 209,12 m		
Scale:	one page	GWT: 5,00 m		



Notes:

- Cloudy/ Windy / 21°C
- Raw data not modified
- Equipment checked and in accordance with EN ISO 22476-11

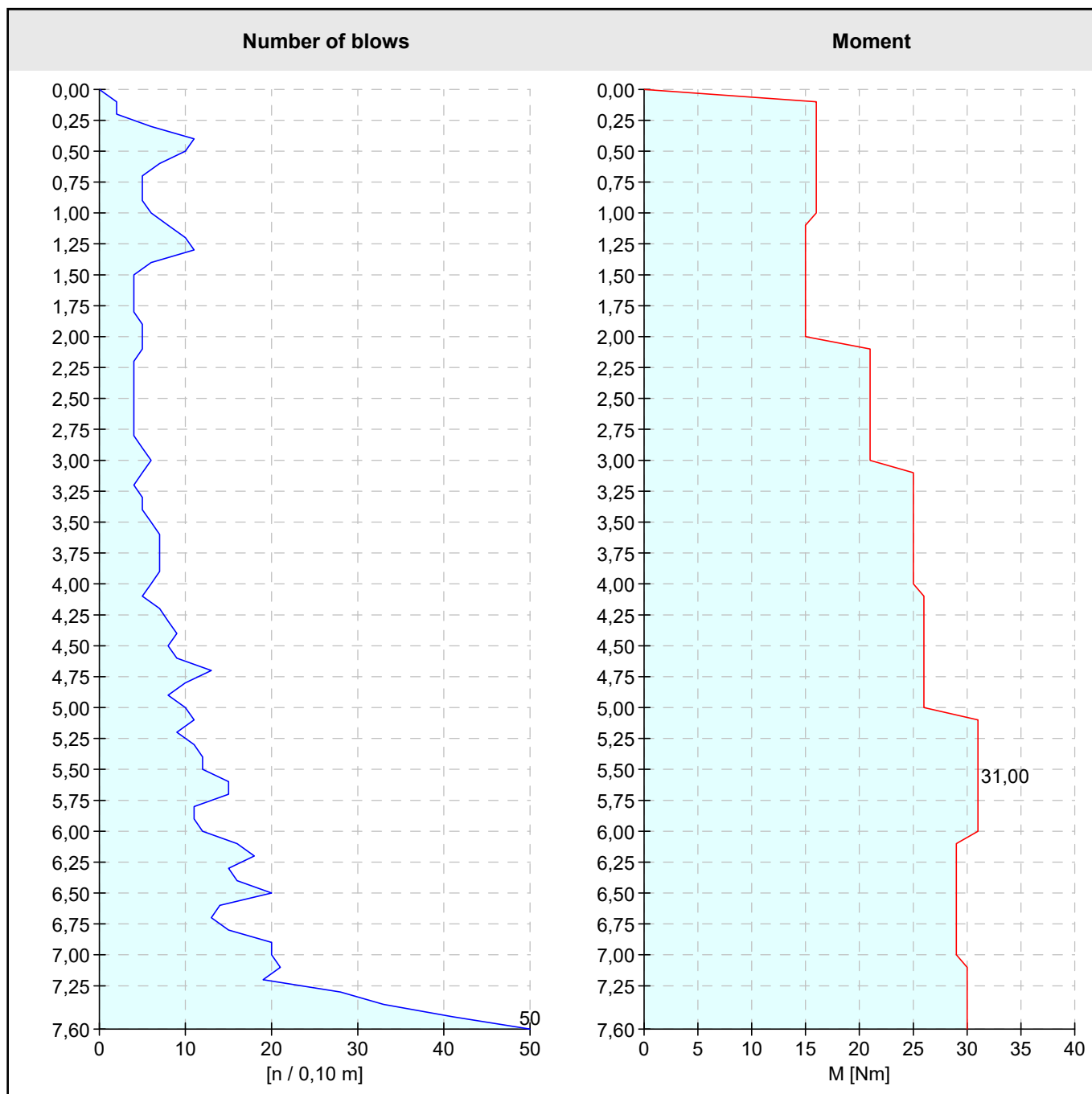
FINE spol. s r.o. Závěrka 12, Praha 6, 169 00		Dilatometer test (DMT)		DMT1
Project: Geological Survey - "Deer House"				
Project ID:	2018_A-017	Annex no.:	21/c7.	Overall depth: 14,00 m
Location:	New street 22/ Liberec			Acc. to standard: EN ISO 22476-11
Measured:	Bill Fieldman	Coordinate X:	1039757,12	Calibration pressure: ΔA_{ini}: 11,00 kPa ΔB_{ini}: 24,00 kPa ΔA_{end}: 18,00 kPa ΔB_{end}: 64,00 kPa
Evaluated:	Joe Freeman	Coordinate Y:	745165,25	
Date of test:	11.10.2016	Coordinate Z:	209,12 m	
Scale:	one page	GWT:	5,00 m	



Notes:

- Cloudy/ Windy / 21°C
- Raw data not modified
- Equipment checked and in accordance with EN ISO 22476-11

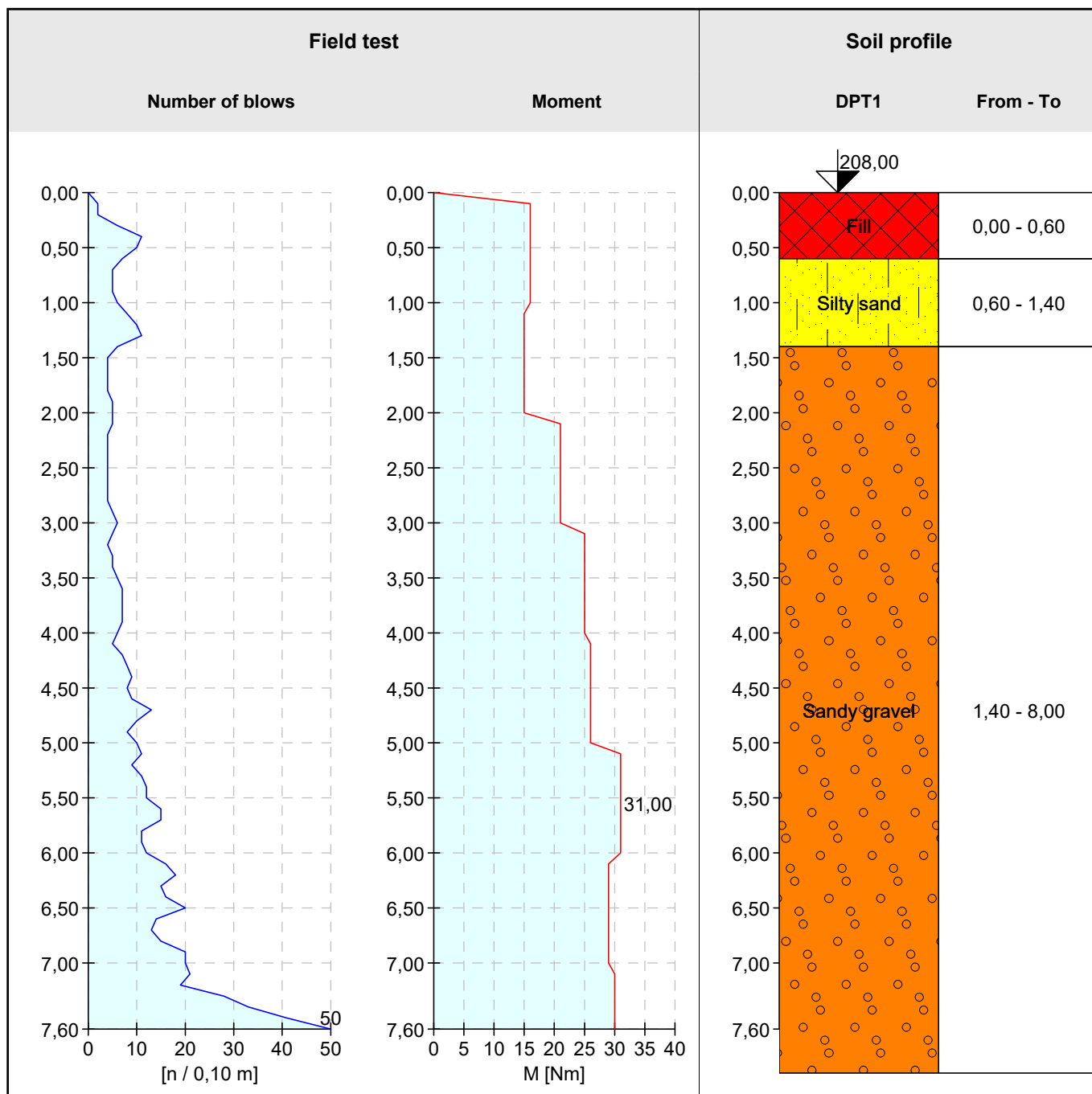
FINE spol. s r.o. Závěrka 12, Praha 6, 169 00		Dynamic probing (DPT)		DPT1
Project: Geological Survey - "Deer House"				
Project ID:	2018_A-017	Annex no.:	123.B	Type of test: DPH
Location:	Horní 128-37/ Svitavy			Type of cone: Fixed / 15 cm ²
Measured:	Joe Fieldman	Coordinate X:	1039757,71	Type of anvil: Loose / 18 kg
Evaluated:	Anthony Old	Coordinate Y:	745200,84	Acc. to standard: EN ISO 22476-2
Date of test:	26.09.2018	Coordinate Z:	208,00 m	Penetration depth interval: 0,10 m
Scale:	one page	GWT:	5,00 m	Overall depth: 7,60 m



Notes:

- Sunny/ Partially cloudy/ Calm
- Testing equipment Borrodril
- Raw data not modified
- Equipment checked and in accordance with EN ISO 22476-2, 5.1

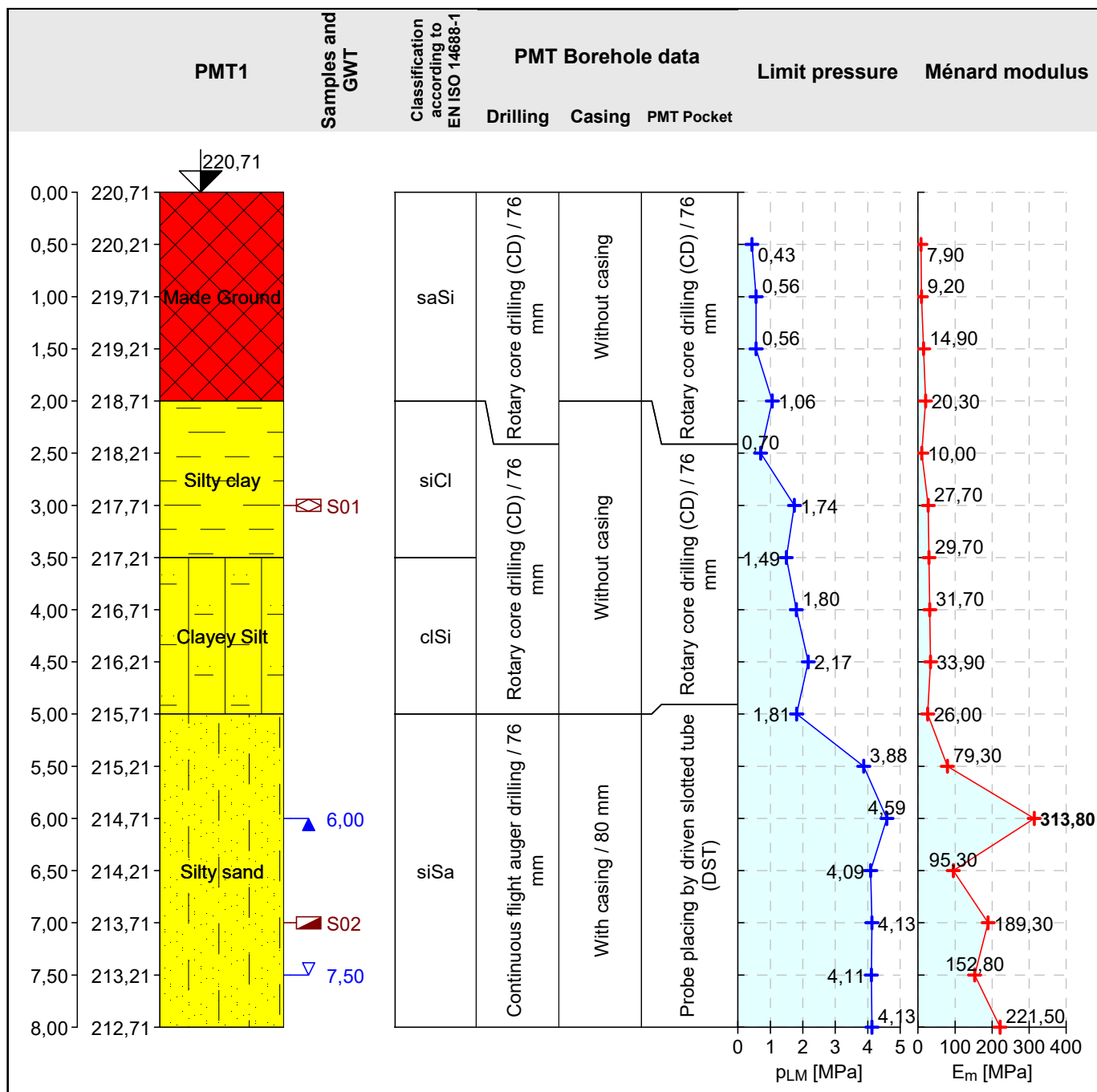
FINE spol. s r.o. Závěrka 12, Praha 6, 169 00		Dynamic probing (DPT)		DPT1
Project: Geological Survey - "Deer House"				
Project ID:	2018_A-017	Annex no.:	123.B	Type of test: DPH
Location:	Horní 128-37/ Svitavy			Type of cone: Fixed / 15 cm ²
Measured:	Joe Fieldman	Coordinate X:	1039757,71	Type of anvil: Loose / 18 kg
Evaluated:	Anthony Old	Coordinate Y:	745200,84	Acc. to standard: EN ISO 22476-2
Date of test:	26.09.2018	Coordinate Z:	208,00 m	Penetration depth interval: 0,10 m
Scale:	one page	GWT:	5,00 m	Overall depth: 7,60 m



Notes:

- Sunny/ Partially cloudy/ Calm
- Testing equipment Borrodril
- Raw data not modified
- Equipment checked and in accordance with EN ISO 22476-2, 5.1

FINE spol. s r.o. Závěrka 12, Praha 6, 169 00		Pressuremeter test (PMT)		PMT1
Project: Geological Survey - "Deer House"				
Project ID: 2018_A-017		Annex no.: 21/a		Overall depth: 8,00 m
Location: Prague - Hloubětín				
Date start: 15.05.2018		Coordinate X: 1039720,54		GWT bored: 7,50 m
Date end: 15.05.2018		Coordinate Y: 745200,84		GWT steady: 6,00 m
Processed: Joe Freeman		Coordinate Z: 220,71 m		Type of procedure: B - with data logger
Scale: one page		Sounding inclination: 5,00 °		Acc. to standard: EN ISO 22476-4
				Constuction site: 

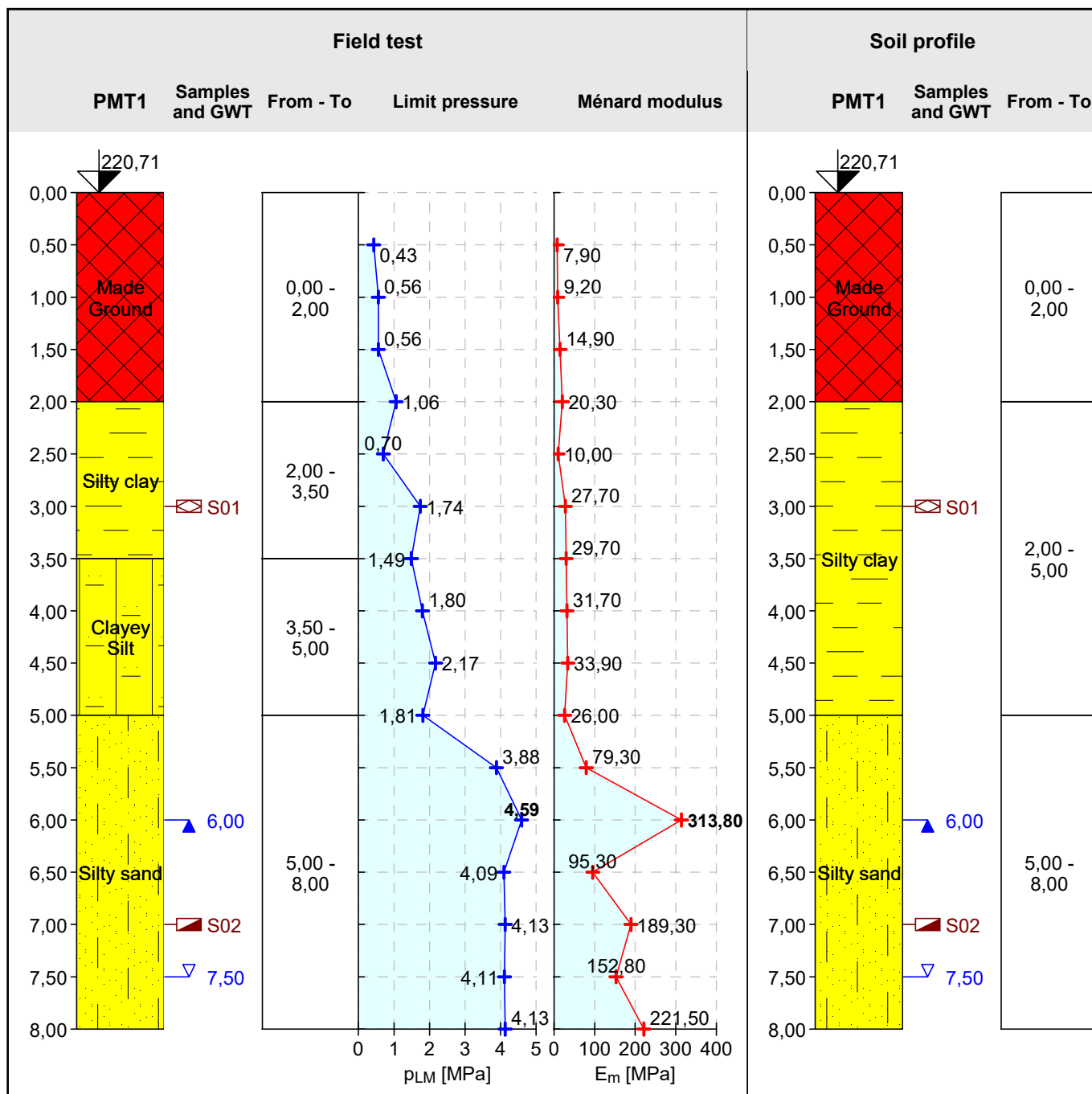

Key:

-  GWT bored
 GWT steady
 undisturbed
 disturbed

Notes:

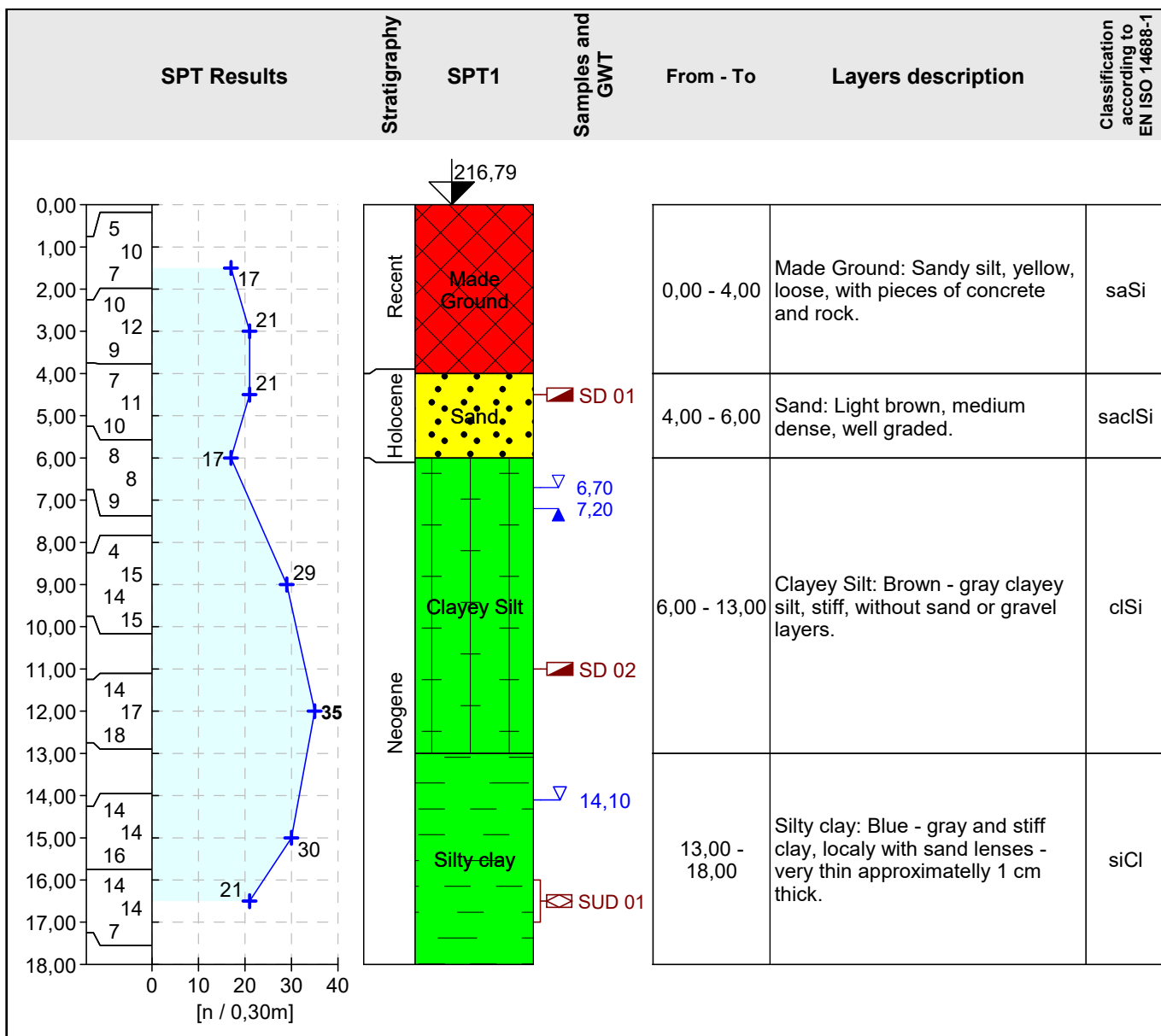
- Cloudy/ Windy / 12°C
 - Raw data not modified

FINE spol. s r.o. Závěrka 12, Praha 6, 169 00		Pressuremeter test (PMT)		PMT1
Project: Geological Survey - "Deer House"				
Project ID: 2018_A-017		Annex no.: 21/a		Overall depth: 8,00 m
Location: Prague - Hloubětín				
Date start: 15.05.2018		Coordinate X: 1039720,54		GWT bored: 7,50 m
Date end: 15.05.2018		Coordinate Y: 745200,84		GWT steady: 6,00 m
Processed: Joe Freeman		Coordinate Z: 220,71 m		Type of procedure: B - with data logger
Scale: one page		Sounding inclination: 5,00 °		Acc. to standard: EN ISO 22476-4
				Constuction site: 



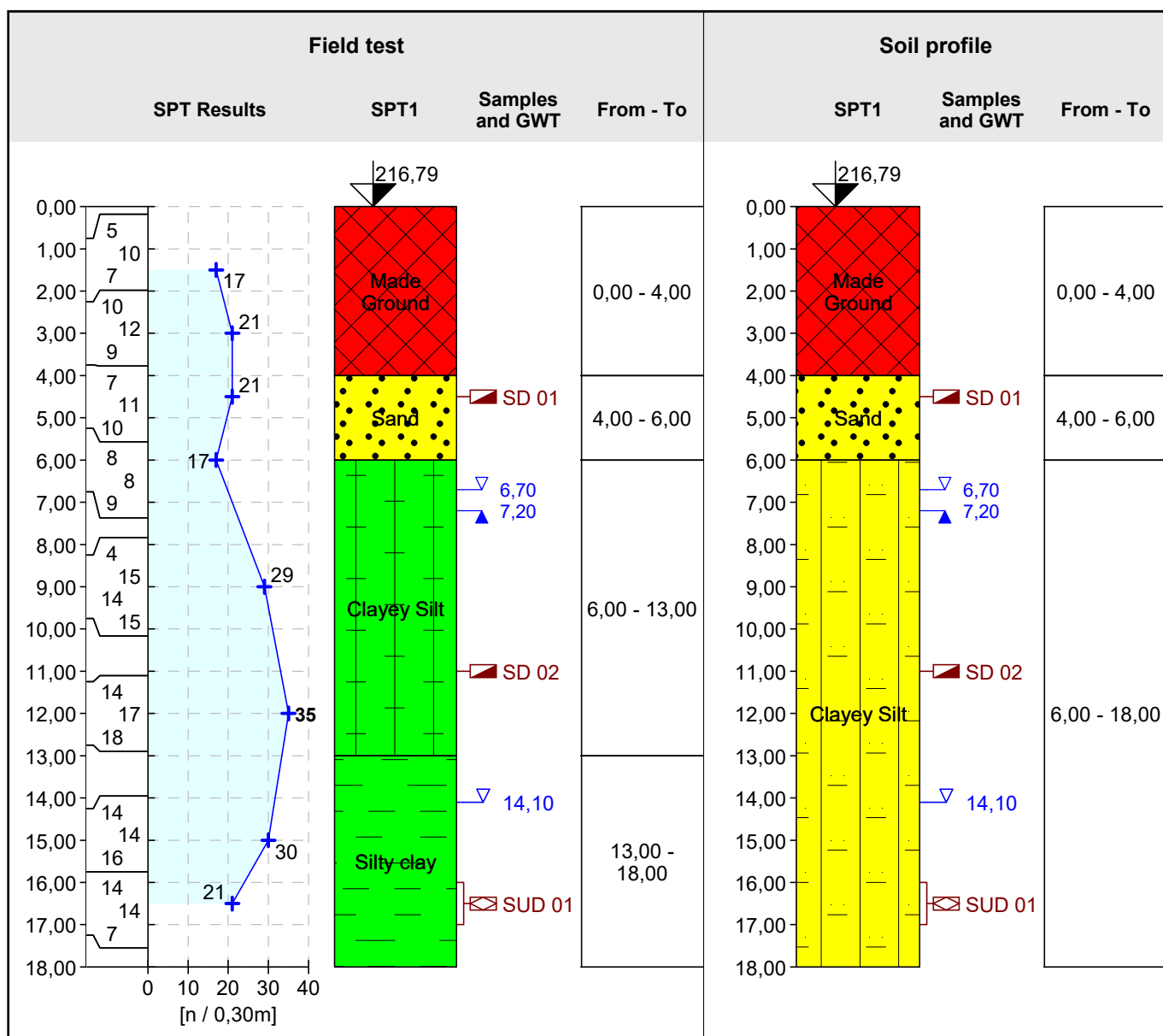
Key:  GWT bored  GWT steady  undisturbed  disturbed		Notes: - Cloudy/ Windy / 12°C - Raw data not modified
--	--	--

FINE spol. s r.o. Závěrka 12, Praha 6, 169 00				Standard penetration test (SPT)				SPT1					
Project: Geological Survey - "Deer House"													
Project ID: 2018_A-017			Annex no.: 47/5b		Drilling equipment: A-300 Ingersoll-Rand Drill Rig								
Location: New street 124/47, Prague					Method of drilling: Rotary drilling								
Foreman: Joe Fieldman			Date start: 14.05.2018		Overall depth: 18,00 m		Coordinate X: 1039733,54						
Operator: Ben Oldman			Date end: 15.05.2018		GWT bored: 6,70; 14,10 m		Coordinate Y: 745200,51						
Documented: Andy Freeman			Scale: one page		GWT steady: 7,20 m		Coordinate Z: 216,79 m						
Processed: Bill New					Bit - type, size: Roller Bit								
Drilling:	Depth from		Depth to		Drilling dia.		Casing:	Depth from		Depth to		Casing dia.	
	0,00 m		14,00 m		195 mm			0,00 m		14,00 m		191 mm	
	14,00 m		18,00 m		156 mm								
Sampler: 2" OD Std Split Spoon			Sampler hammer: Donut			Weight: 63,50 kg		Drop: 0,76 m					



Key: GWT bored GWT steady undisturbed disturbed		Notes: - Cloudy and windy, 14°C - Start time 7:00 - Loosing drilling fluid at 14,0m below terrain - ...
--	--	--

FINE spol. s r.o. Závěrka 12, Praha 6, 169 00				Standard penetration test (SPT)				SPT1	
Project: Geological Survey - "Deer House"									
Project ID: 2018_A-017			Annex no.: 47/5b		Drilling equipment:		A-300 Ingersoll-Rand Drill Rig		
Location: New street 124/47, Prague					Method of drilling:		Rotary drilling		
Foreman: Joe Fieldman			Date start: 14.05.2018		Overall depth: 18,00 m		Coordinate X: 1039733,54		
Operator: Ben Oldman			Date end: 15.05.2018		GWT bored: 6,70; 14,10 m		Coordinate Y: 745200,51		
Documented: Andy Freeman			Scale: one page		GWT steady: 7,20 m		Coordinate Z: 216,79 m		
Processed: Bill New					Bit - type, size:		Roller Bit		
Drilling:	Depth from	Depth to	Drilling dia.	Casing:	Depth from	Depth to	Casing dia.		
	0,00 m	14,00 m	195 mm		0,00 m	14,00 m	191 mm		
	14,00 m	18,00 m	156 mm						
Sampler: 2" OD Std Split Spoon		Sampler hammer: Donut			Weight: 63,50 kg		Drop: 0,76 m		



Key: GWT bored undisturbed GWT steady disturbed		Notes: - Cloudy and windy, 14°C - Start time 7:00 - Loosing drilling fluid at 14,0m below terrain - ...
--	--	--