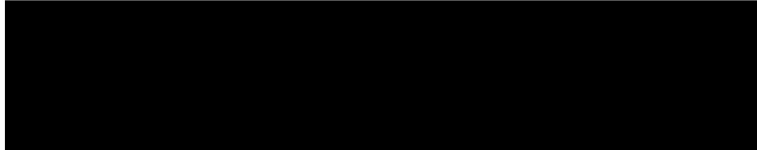
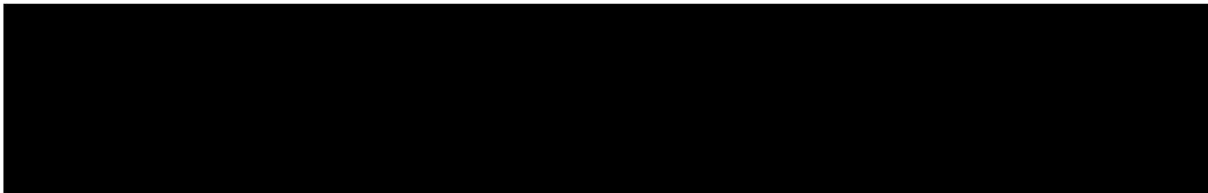


SITE INVESTIGATION FACTUAL REPORT



Site: 6 Kensington Avenue
Gloucestershire



Investigation Layout Plan

Sheet: 1 of 1

Job No: 612467

Date: 23/3/2023

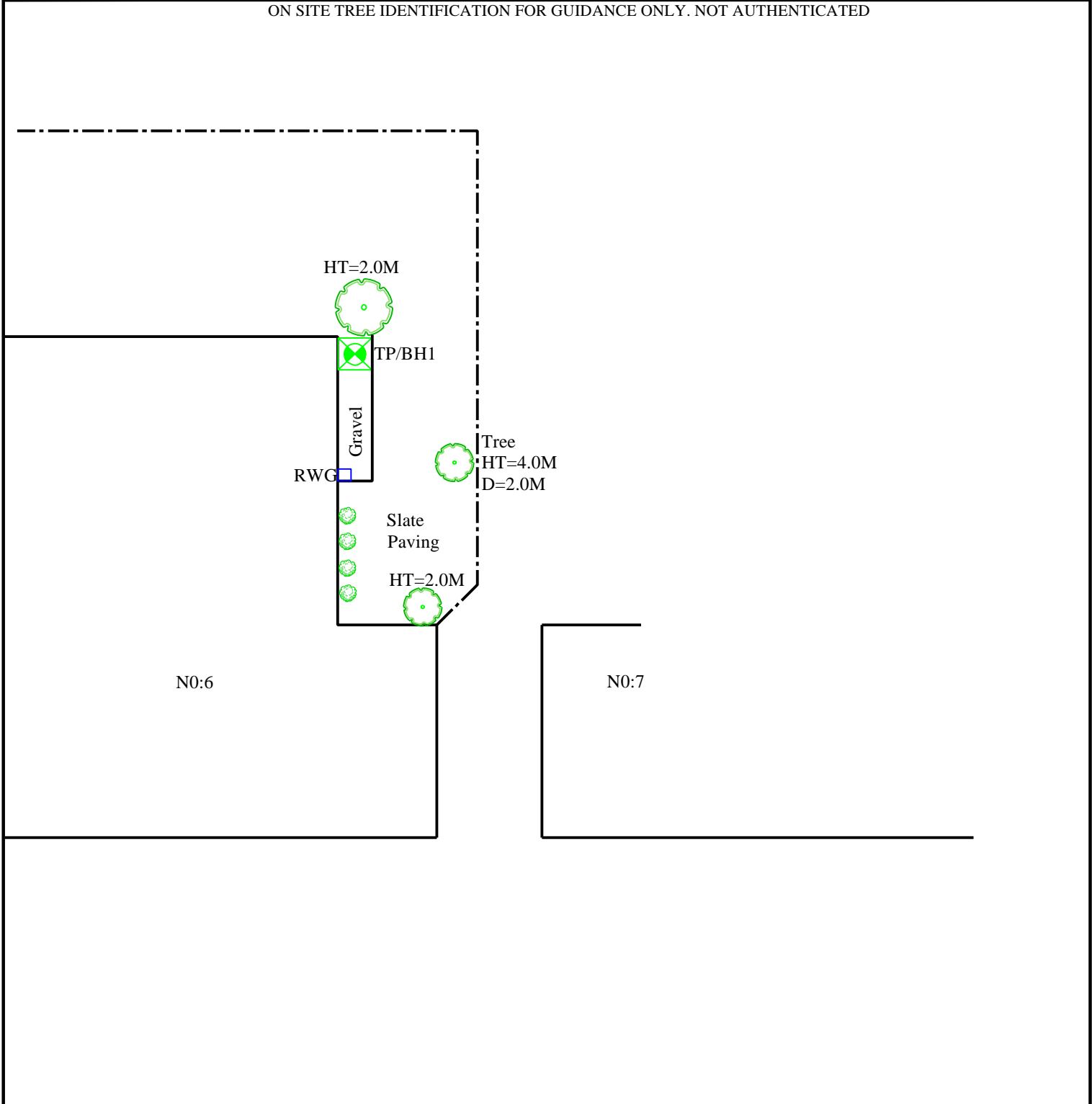
Site: 6 Kensington Avenue, Cheltenham, GL50

Work carried out for: Sedgwick International UK

SN (SI) AM (Checked) JMC (Drawn)

Weather: Overcast

ON SITE TREE IDENTIFICATION FOR GUIDANCE ONLY. NOT AUTHENTICATED

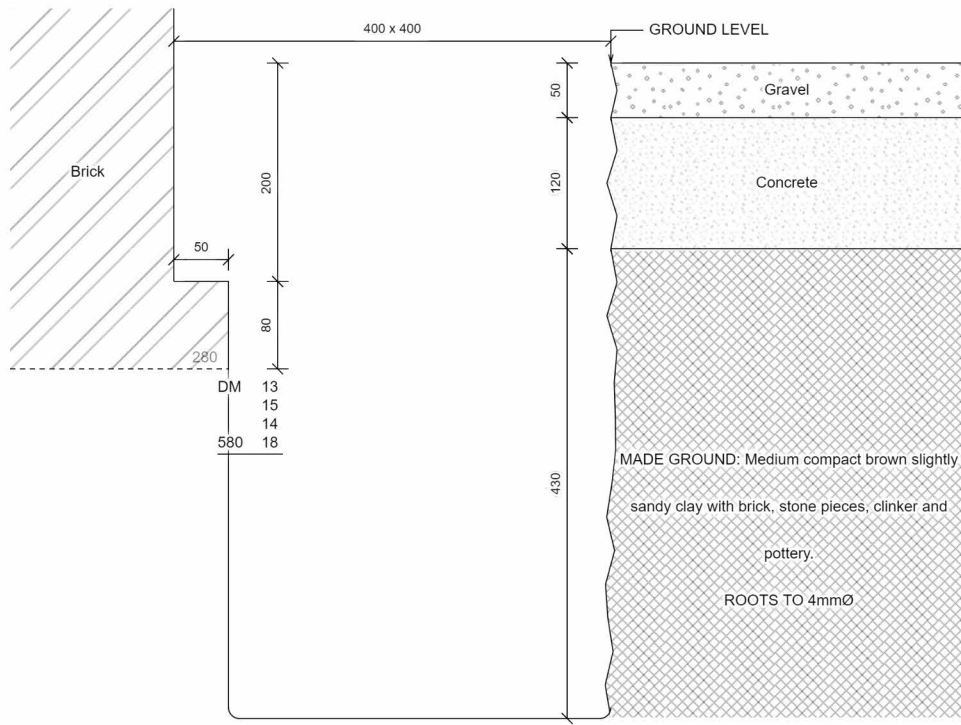


Remarks: TP carried out to engineers instruction, not site plan.

Key:		Surface Water Drain	
Combined Gulley	RWWG	Foul Water Drain	
Manhole	MH	Tree / Bush	
Rain Water Pipe	RWP	(approx. ht in m)	
Rain Water Gulley	RWG	Trial Pit	
Soil Vent Pipe	SVP	Borehole	
Waste Gulley	WG	O/D - Open Discharge	
Waste Pipe	WP		

Scale: N.T.S.

TEST REPORT: Trial Pit
REPORT NUMBER: C1075497 / 244620.1.1.1
TRIAL PIT REF: TP1 **DATE:** 22/03/2023
CLIENT: Sedgwick International UK **SITE:** 6 KENSINGTON AVENUE
JOB NO: 612467 **WEATHER:** Overcast
EXCAVATION METHOD: Hand tools



For Strata below 600mm see Bore Hole log

Curved steel pin driven 300mm under foundation at 280mm below ground level. Both house and pad same depth pad looks to have been built onto brick corbel foundation. Steel pin driven under corner at same depth as original house wall foundation. ONLY ONE SAMPLE TAKEN

Key:

D Small disturbed sample J Jar sample
 B Bulk disturbed sample V Pilcon vane (kPa)
 W Water sample M Mackintosh probe
 TDTD Too dense to drive

Remarks:

Test results reported relate only to the items tested.
 This report shall not be reproduced except in full without approval of the Laboratory.
 The laboratory does not apply a conformity statement to test reports as standard, unless specifically requested by the customer.

For and on behalf of CTS
 Adam Mason - Quality Control



Approved Signatory
 Report date 29-Mar-23

Borehole		1		Sheet:	1 of 1		Site:	6 KENSINGTON AVENUE							
Boring Method:		Hand Auger		Job No:	612467		Date:		20/03/2023						
Diameter (mm):		75		Weather:		overcast		Ground Level:		Client: SEDGWICK INTERNATIONAL UK					
Depth (m)	Soil Description							Thickness	Legend	Depth	Type	Result			
0.00	See Trial Pit							0.60							
0.60	MADEGROUND medium compact brown silty sandy clay with brick and concrete clinker pottey.							0.40							
1.00	Stiff grey-brown CLAY							0.50		1.00	DV	120+ 120+			
1.50	Firm pungent moist grey-brown CLAY							0.50		1.50	DV	68 70			
2.00	Stiff grey-brown CLAY							0.40		2.00	DV	120+ 120+			
2.40	End of BH														
Remarks: BH ends at 2.4m, too stiff to hand auger. BH moist and open on completion, no roots observed below 1.5m							Key: D - Disturbed Sample B - Bulk Sample W - Water Sample J - Jar Sample V - Pilcon Shear Vane (kPa) M - Mackintosh Probe TDTD - Too Dense To Drive				To Max Depth Dia (m) (mm)		1.50	2	
Logged:		SN		AM		Checked:		Approved:		Version		V1.0 28/01/16		N.T.S.	



SITE INVESTIGATION LABORATORY TEST REPORT

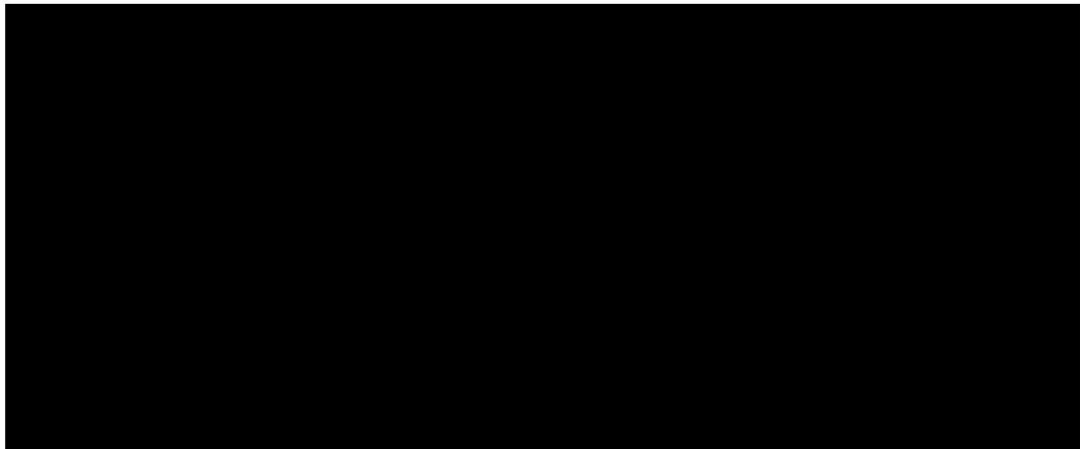
SI REPORT NUMBER: 612467

CLIENT : CET Property Assurance (Sedgwick International UK)

SITE:
6 Kensington Avenue
Cheltenham
GL50 2NQ

DATE OF SITE VISIT:
22/03/2023

DATE RECEIVED BY LABORATORY:
29/03/023



Laboratory Summary Results

Our Ref : 612467
 Location : 6 Kensington Avenue
 Client: CET Property Assurance (Sedgwick International UK)
 Address: Unit 4, Boundary Court, Willow Farm Business Park, Castle Donington, DE74 2NN

Date Sampled: 22/03/2023
 Date Received : 29/03/2023
 Date Tested : 20/04/2023
 Date of Report : 21/04/2023

Sample Ref		Type	Moisture Content (%) [1]	Soil Fraction > 0.425mm (%) [2]	Liquid Limit (%) [3]	Plastic Limit (%) [4]	Plasticity Index (%) [5]	Liquidity * Index [5]	Modified * Plasticity Index (%) [6]	Soil * Class [7]	Filter Paper Contact Time (d)	Soil Sample Suction (kPa) [8]	Oedometer Strain [9]	Estimated * Heave Potential (Dd) (mm)[10]	In situ * Shear Vane Strength (kPa) [11]	Organic * Content (%) [12]	pH Value [13]	Sulphate Content		* Class [16]
TP/BH No	Depth (m)																	SO ₃ (g/l) * [14]	SO ₄ (mg/l) [15]	
1	U/S 0.28	D	27	70	ENP - Too gravelly															
	1.0	D	30	<5	68	26	42	0.10	42	CH	7	143			> 120					
	1.5	D	23	<5											69					
	2.0	D	20	<5	49	18	31	0.08	31	CI	7	141			> 120					

Test Methods / Notes

- [1] BS 1377 : Part 2 : 1990, Test No 3.2
- [2] Estimated if <5%, otherwise measured
- [3] BS 1377 : Part 2 : 1990, Test No 4.4
- [4] BS 1377 : Part 2 : 1990, Test No 5.3
- [5] BS 1377 : Part 2 : 1990, Test No 5.4
- [6] BRE Digest 240 : 1993
- [7] BS 5930 : 2018 : Figure 8 - Plasticity Chart for the classification of fines soils

[8] Building Research Establishment Information Paper 4/93

- [9] In Accordance with BS 1377-5 : 1990 : Clause 3
- [10] Estimated Heave Potential (Dd)
- [11] Values of shear strength were determined in situ by CTS using a Pilcon hand vane or Geonor vane (GV).
- [12] BS 1377 : Part 3 : 2018 + A1 2021 Clause 4 - Tested By CTS Leicester
- [13] BS 1377 : Part 3 : 2018 + A1 2021 Clause 12 - Tested By CTS Leicester
- [14] Sulphate content as SO₃ as required by BS 1377: Part 3: 1990 has been provided for information purposes - Tested By CTS Leicester
- [15] BS 1377 : Part 3 : 2018 + A1 2021 Clause 7.6 - Tested By CTS Leicester

[16] BRE Special Digest One (Concrete in Aggressive Ground) August 2005

Note that if the SO₄ content falls into the DS-4 or DS-5 class, it would be prudent to consider the sample as falling into the DS-4M or DS-5M class respectively unless water soluble magnesium testing is undertaken to prove otherwise.
 PSD Chart - BS 1377: Part 2 : 1990, Test No 9.2

* These tests are not UKAS accredited

Full reports can be provided upon request.

Key

- D Disturbed sample (small)
- B Disturbed sample (bulk)
- U Undisturbed sample
- W Groundwater sample
- ENP Essentially Non-Plastic by inspection
- U/S Underside of Foundation

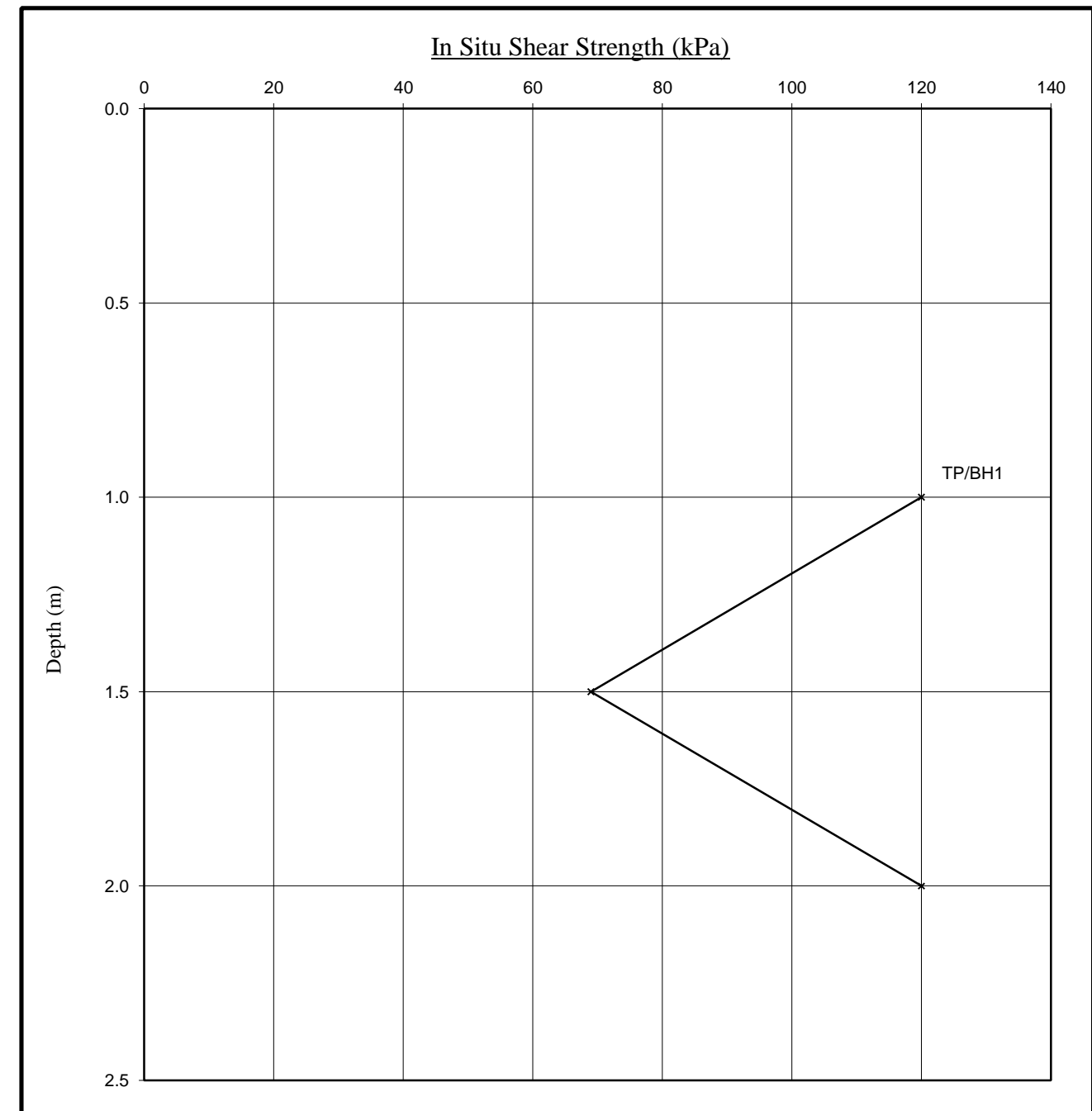
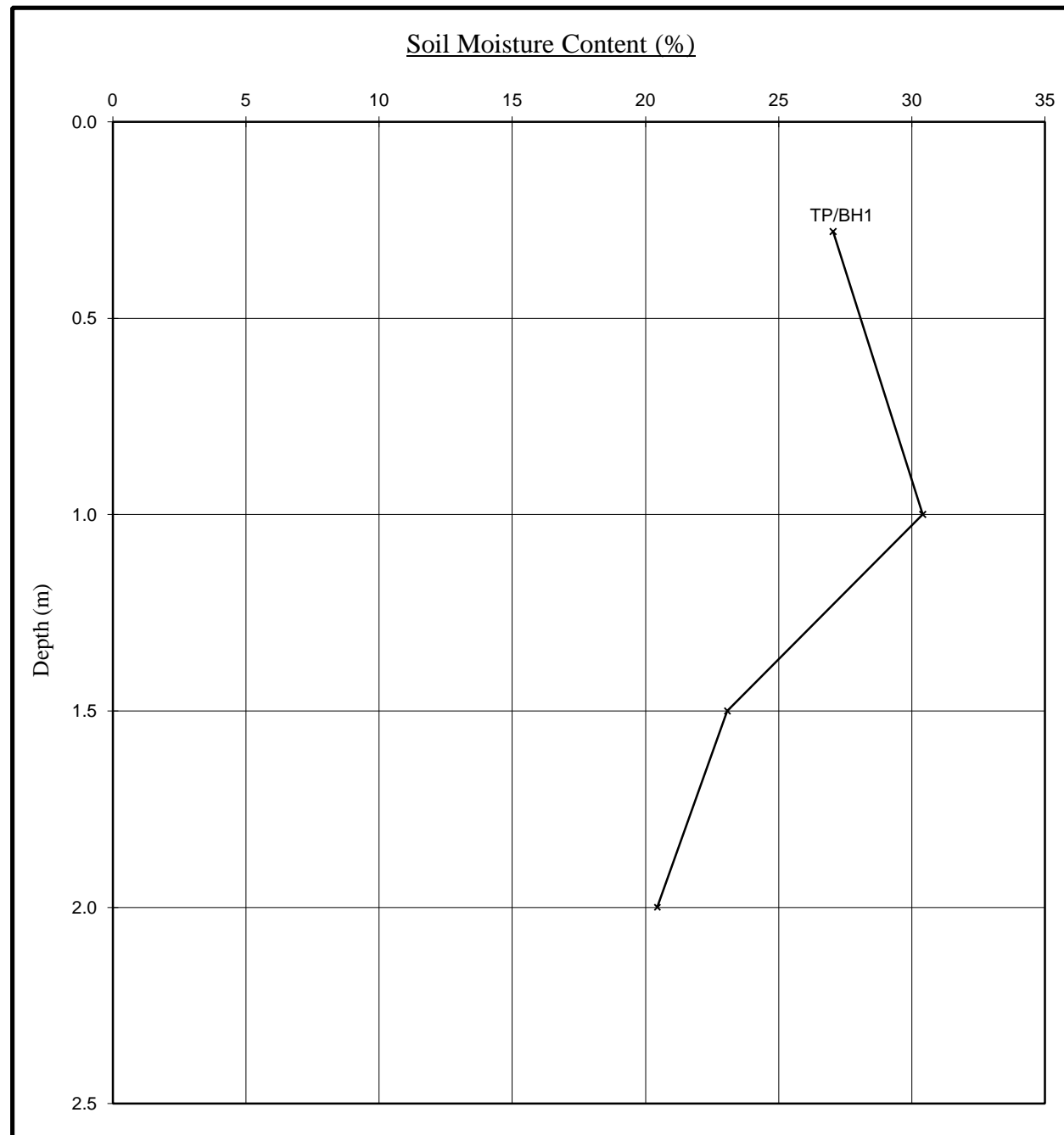
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 Opinions and interpretations expressed herein are outside of the scope of UKAS accreditation.



Moisture Content Profiles

Our Ref : 612467
Location : 6 Kensington Avenue
Work carried out for: CET Property Assurance (Sedgwick International UK)

Date Sampled : 22/03/2023
Date Received : 29/03/2023
Date Tested : 20/04/2023
Date of Report : 21/04/2023



Notes

1. If plotted, 0.4 LL and PL+2 (after Driscoll, 1983) should only be applied to London Clay (and similarly overconsolidated clay) at shallow depths.
2. Unless specifically noted the profiles have not been related to a site datum.

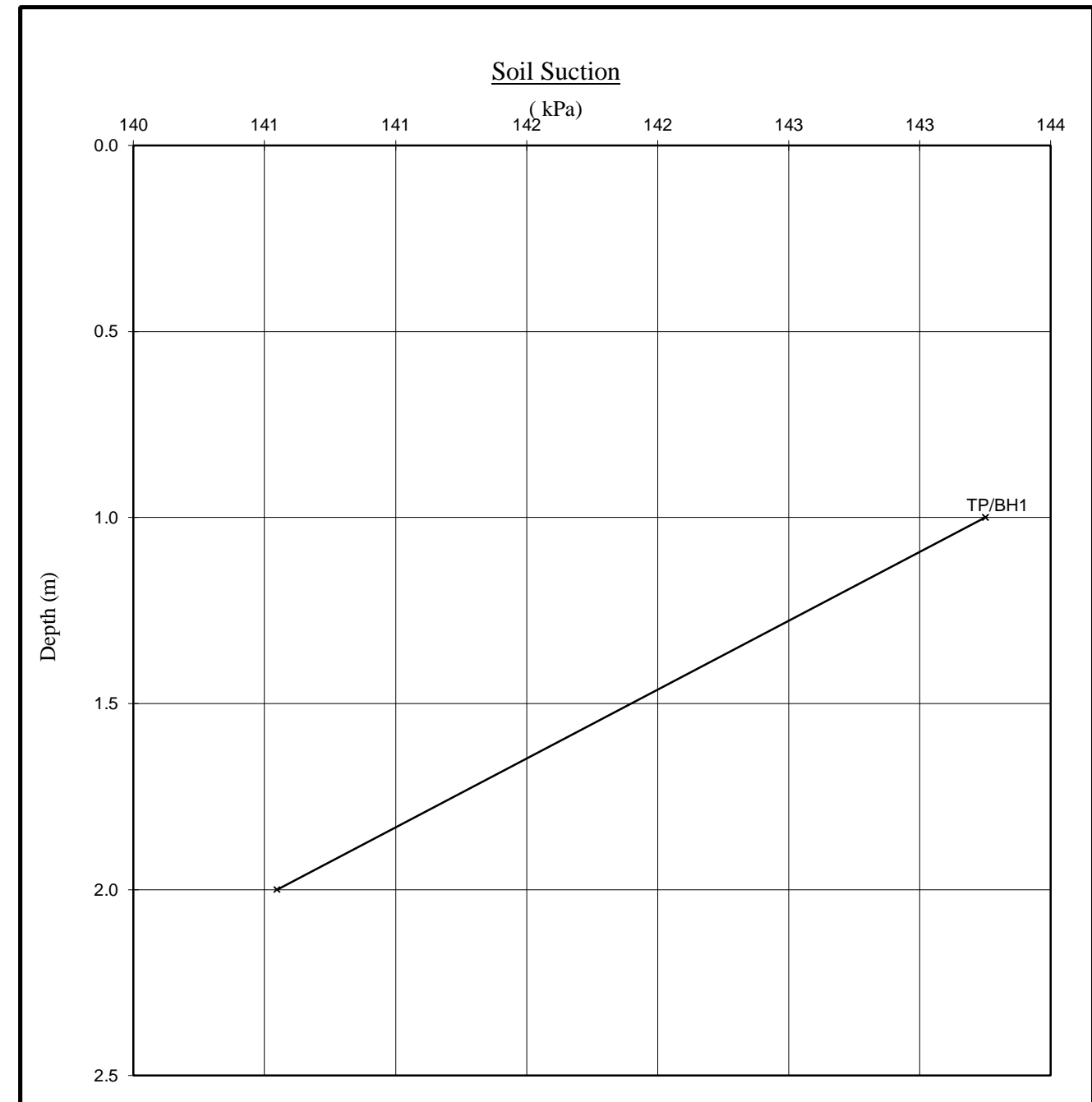
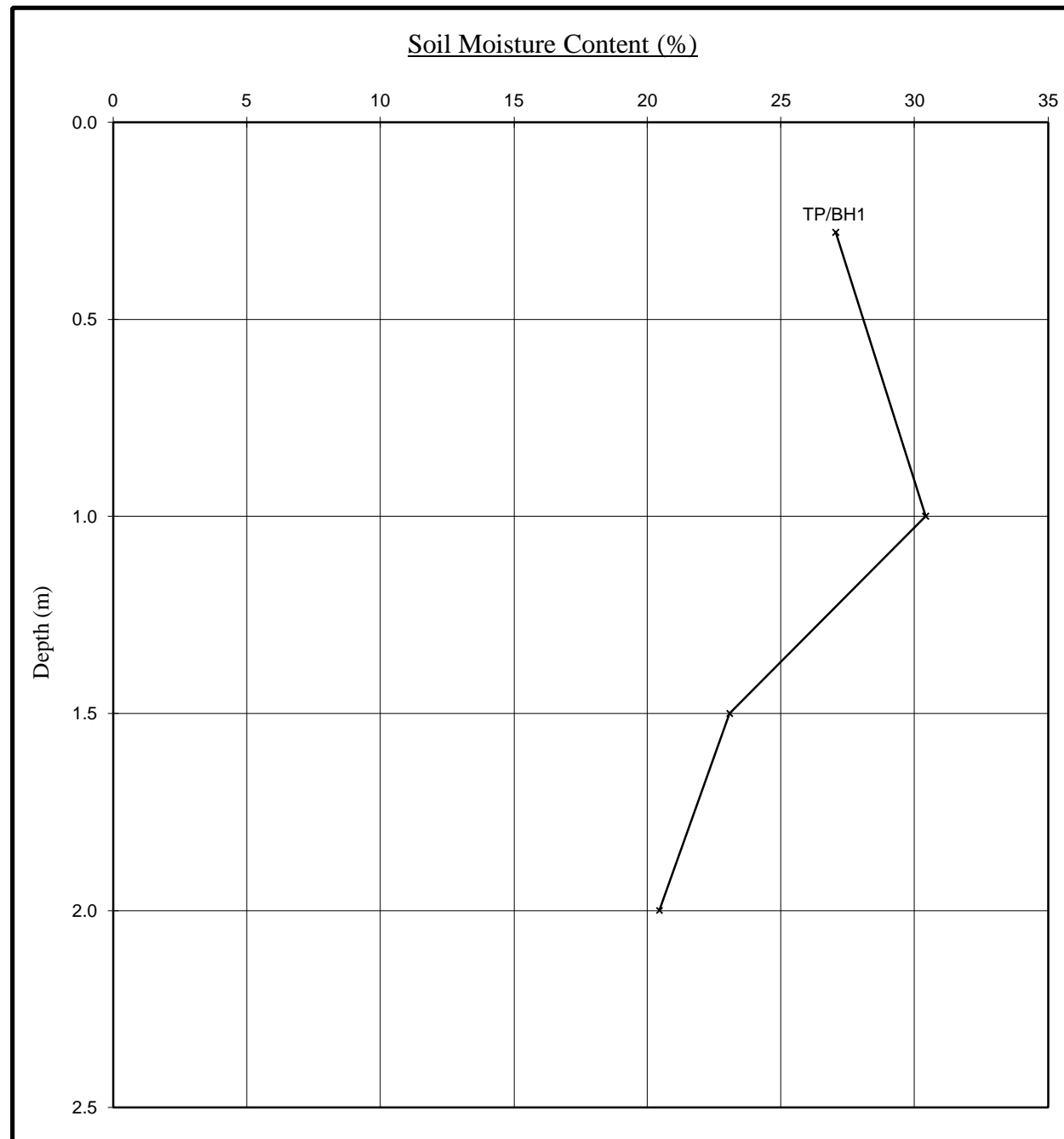
Note

1. Unless otherwise stated, values of Shear Strength were determined in situ by CTS using a Pilcon Hand Vane the calibration of which is limited to a maximum reading of 130 kPa.
2. Unless specifically noted the profiles have not been related to a site datum.

Moisture Content Profiles

Our Ref : 612467
 Location : 6 Kensington Avenue
 Work carried out for: CET Property Assurance (Sedgwick International UK)

Date Sampled : 22/03/2023
 Date Received : 29/03/2023
 Date Tested : 20/04/2023
 Date of Report : 21/04/2023

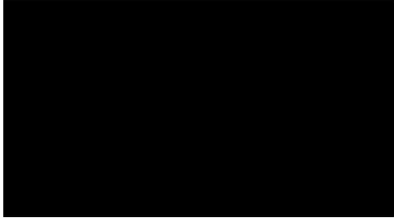


Notes

1. If plotted, 0.4 LL and PL+2 (after Driscoll, 1983) should only be applied to London Clay (and similarly overconsolidated clay) at shallow depths.
2. Unless specifically noted the profiles have not been related to a site datum.

Note

When shown, the theoretical equilibrium suction profiles are based on conventional assumptions associated with London Clay (and similarly overconsolidated clays) at shallow depths. Note that the sample disturbance component is dependant on the method of sampling and any subsequent recompaction. The above plots show this to be 100kPa which is the value suggested by the BRE on the basis of their limited number of tests on recompacted samples. This may or may not be appropriate in this instance and judgement should be exercised.



ROOT IDENTIFICATION

6 Kensington Ave

Client Reference: 612467
Report Date: 5 April 2023
Our Ref: R51943

Sub Sample	Species Identified		Root Diameter	Starch
TP1:				
USF	<i>Carpinus</i> spp.	1	3 mm	Abundant
BH1:				
to 1.5m	<i>Carpinus</i> spp.	2	2 mm	Abundant

Comments:

- 1 - Plus 3 others also identified as *Carpinus* spp.
- 2 - Plus 2 others also identified as *Carpinus* spp.

Carpinus spp. are hornbeams.

Signed: R. Shaw

Unless we are otherwise instructed in writing, the above sample material will normally be disposed of 6 years after the date of this report.

