

SITE INVESTIGATION FACTUAL REPORT

Report No: SI-560417
Client: Sedgwick International UK - Morley
Site: 75 Ladygate Lane
Hillingdon
Client Ref: 8767150
Date of Visit: 24/03/2023



Home Emergency Response - Subsidence Investigation - Drainage Services – Crack & Level Monitoring – Property Video Surveys

Unit E2 First Floor Suite, Boundary Court
Willow Farm Business Park, Castle Donington
Leicestershire, DE74 2NN

0843 2272362
enquiries@cet-uk.com
www.cet-uk.com

CET is the trading name of CET Structures Ltd
Registered in England No. 02527130

Investigation Layout Plan

Sheet: 1 of 1
Job No: 560417
Date: 24/03/2023

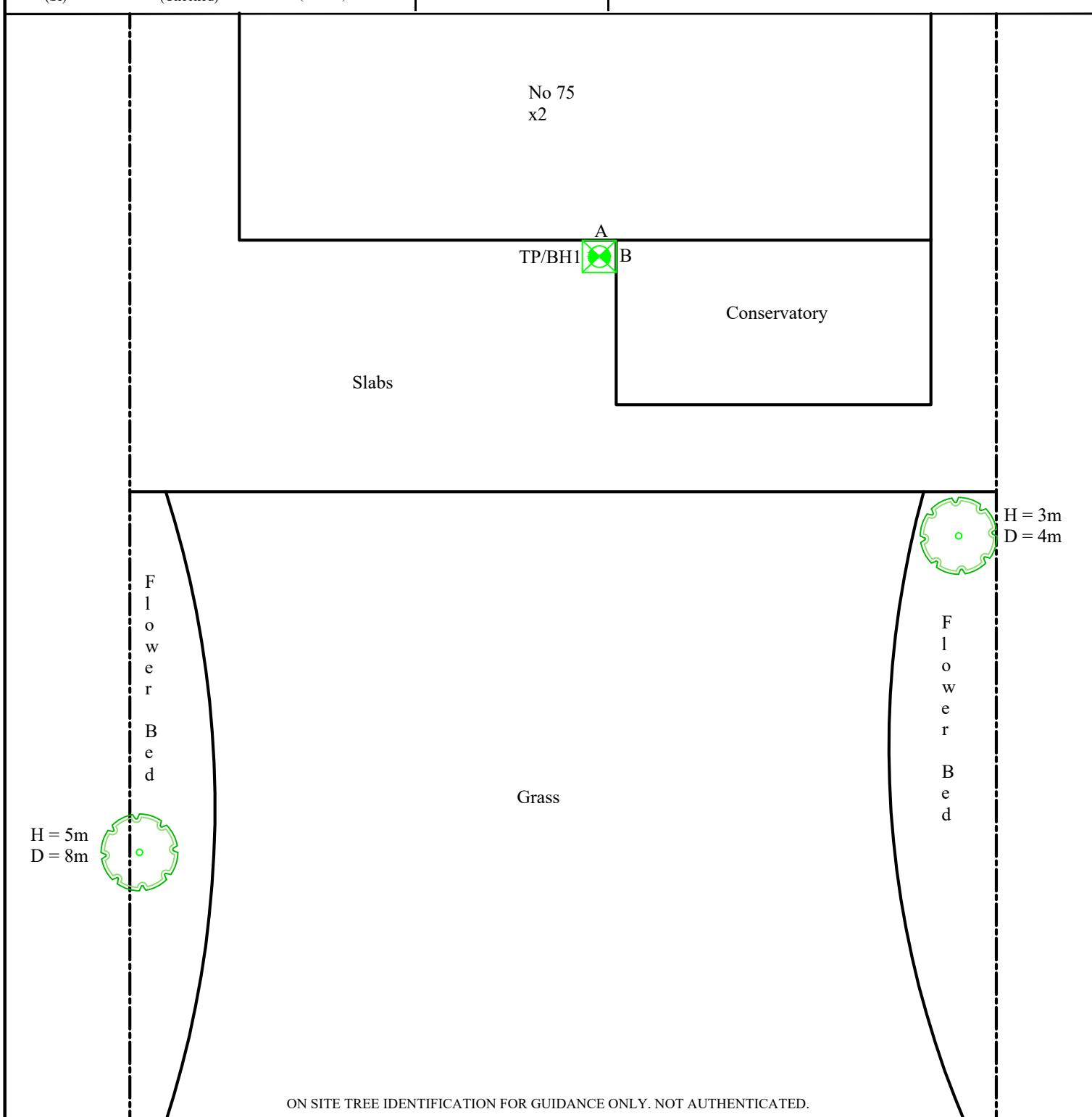
Site: 75 Ladygate Lane
Work carried out for: Sedgwick International

PM
(SI)

SA
(Checked)

LP
(Drawn)

Weather: Dry



Remarks:

Key:

Combined Gulley RWWG

Manhole MH

Rain Water Pipe RWP

Rain Water Gulley RWG

Soil Vent Pipe SVP

Waste Gulley WG

Waste Pipe WP

Surface Water Drain

Foul Water Drain

Tree / Bush

(approx. ht in m)

Trial Pit

Borehole

O/D - Open Discharge

Scale: N.T.S.

TEST REPORT:
Trial Pit

REPORT NUMBER: C1075615 / 245151.1.1.1

TRIAL PIT REF: TP1A

DATE: 24/03/2023

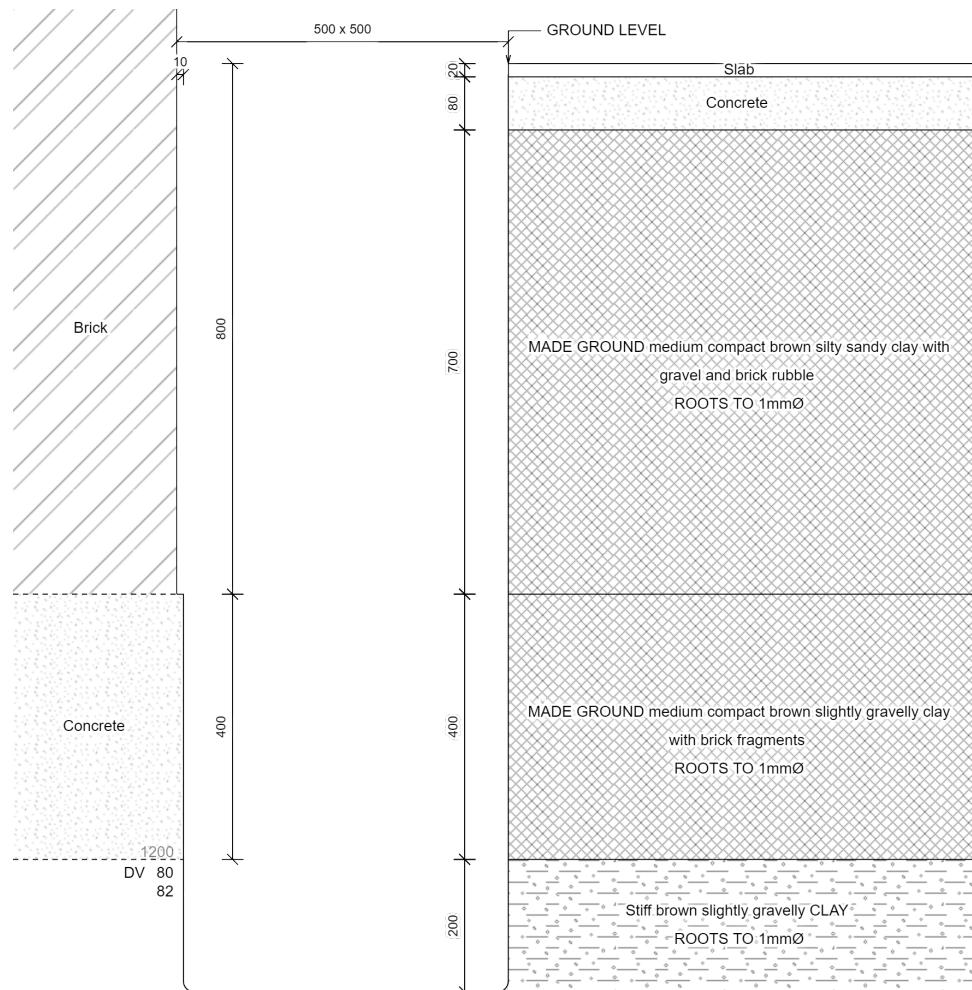
CLIENT: Sedgwick International UK

SITE: 75 LADYGATE LANE

JOB NO: 560417

WEATHER: Dry

EXCAVATION METHOD: Hand tools



For Strata below 1400mm see Bore Hole log

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.

Amended report. This test report supersedes test report version 1 - .

For and on behalf of CTS

Adam Mason - Quality Control



Approved Signatory

Report date 30-Mar-23

TEST REPORT:
Trial Pit

REPORT NUMBER: C1075615 / 245151.1.1.2

TRIAL PIT REF: TP1B

DATE: 24/03/2023

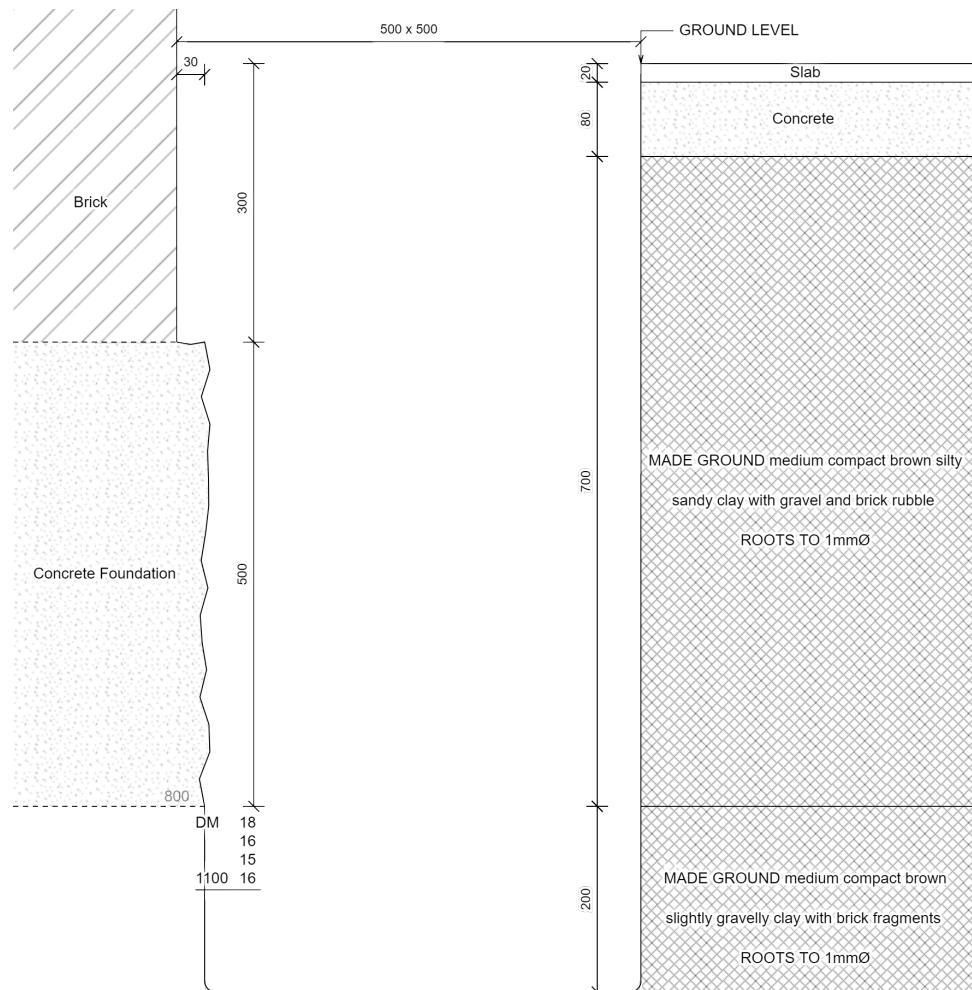
CLIENT: Sedgwick International UK

SITE: 75 LADYGATE LANE

JOB NO: 560417

WEATHER: Dry

EXCAVATION METHOD: Hand tools



For Strata below 1000mm see Trial Pit log

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.

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For and on behalf of CTS

Adam Mason - Quality Control



Approved Signatory
Report date 30-Mar-23

Borehole		1		Sheet:	1 of 1	Site:	75 LADYGATE LANE		
				Job No:	560417				
				Date:	24/03/2023				
Boring Method:		Hand Auger			Ground Level:		Client:	SEDGWICK INTERNATIONAL UK	
Diameter (mm):		75	Weather:						
Depth (m)	Soil Description						Samples and Tests		
0.00	See Trial Pit						Thickness	Legend	Depth
0.00									Type
0.00									Result
1.40	Stiff brown slightly gravelly CLAY						0.10	— 	
1.50	End of BH								
Remarks: BH ends at 1.5m. Unable to extract samples due to gravel obstruction. BH dry and open on completion. No roots observed below 1.4m					Key: D - Disturbed Sample B - Bulk Sample W - Water Sample J - Jar Sample V - Pilcon Shear Vane (kPa) M - Mackintosh Probe TD TD - Too Dense To Drive			To Depth (m)	Max Dia (mm)



SITE INVESTIGATION LABORATORY TEST REPORT

SI REPORT NUMBER: 560417

CLIENT : CET Property Assurance (Sedgwick International UK)

SITE:
75 Ladygate Lane
HA4 7QX

DATE OF SITE VISIT:
24/03/2023

DATE RECEIVED BY LABORATORY:
30/03/2023

Compiled by :

C Major - Deputy Laboratory Manager

Approved by :

L Marshall - Laboratory Manager

DATE REPORTED: 27-Apr-2023

Laboratory Summary Results

Our Ref : 560417 Date Sampled: 24/03/2023
 Location : 75 Ladygate Lane Date Received : 30/03/2023
 Client: CET Property Assurance (Sedgwick International UK) Date Tested : 26/04/2023
 Address: Unit 4, Boundary Court, Willow Farm Business Park, Castle Donington, DE74 2NN Date of Report : 27/04/2023

TP No	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) [7]	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]
																SO ₃ (g/l) * [14]		SO ₄ (mg/l) [15]		
1A	U/S 1.20	D	16	48	50	17	33	-0.02	17	CH	Too gravelly		81	81	81	81	81	81	81	81
			26	23	55	19	36	0.20	28	CH	7	15.7								
			24	19	54	19	35	0.15	29	CH	Too gravelly									

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.

4161

Version: 5BH V3.8 - 17.03.2023

Our Ref : 560417

Laboratory Testing Results

Date Sampled : 24/03/2023

Location : 75 Ladygate Lane

Date Received : 30/03/2023

Client: CET Property Assurance (Sedgwick International UK)

Date Tested : 26/04/2023

Address: Unit 4, Boundary Court, Willow Farm Business Park, Castle Donington, DE74 2NN

Date of Report : 27/04/2023

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) [7]	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 No.	Depth (m)																	SO ₃ (g/l) * [14]	SO ₄ (mg/l) [15]	
1B	U/S 0.80	D	23	27	53	17	36	0.17	26	CH	7	34								

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 : 1981 : Figure 31 - Plasticity Chart for the classification of fine 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

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Key

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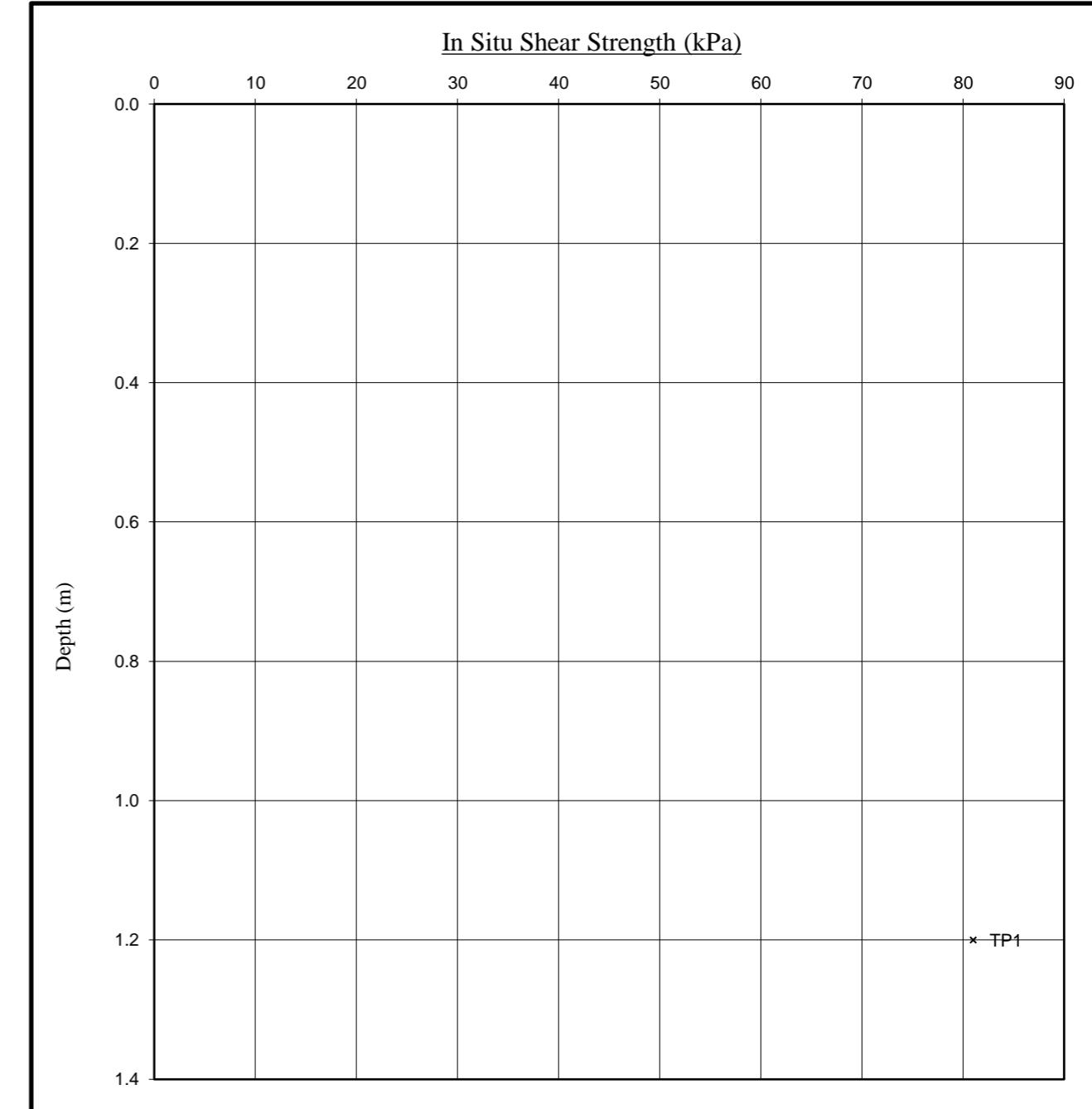
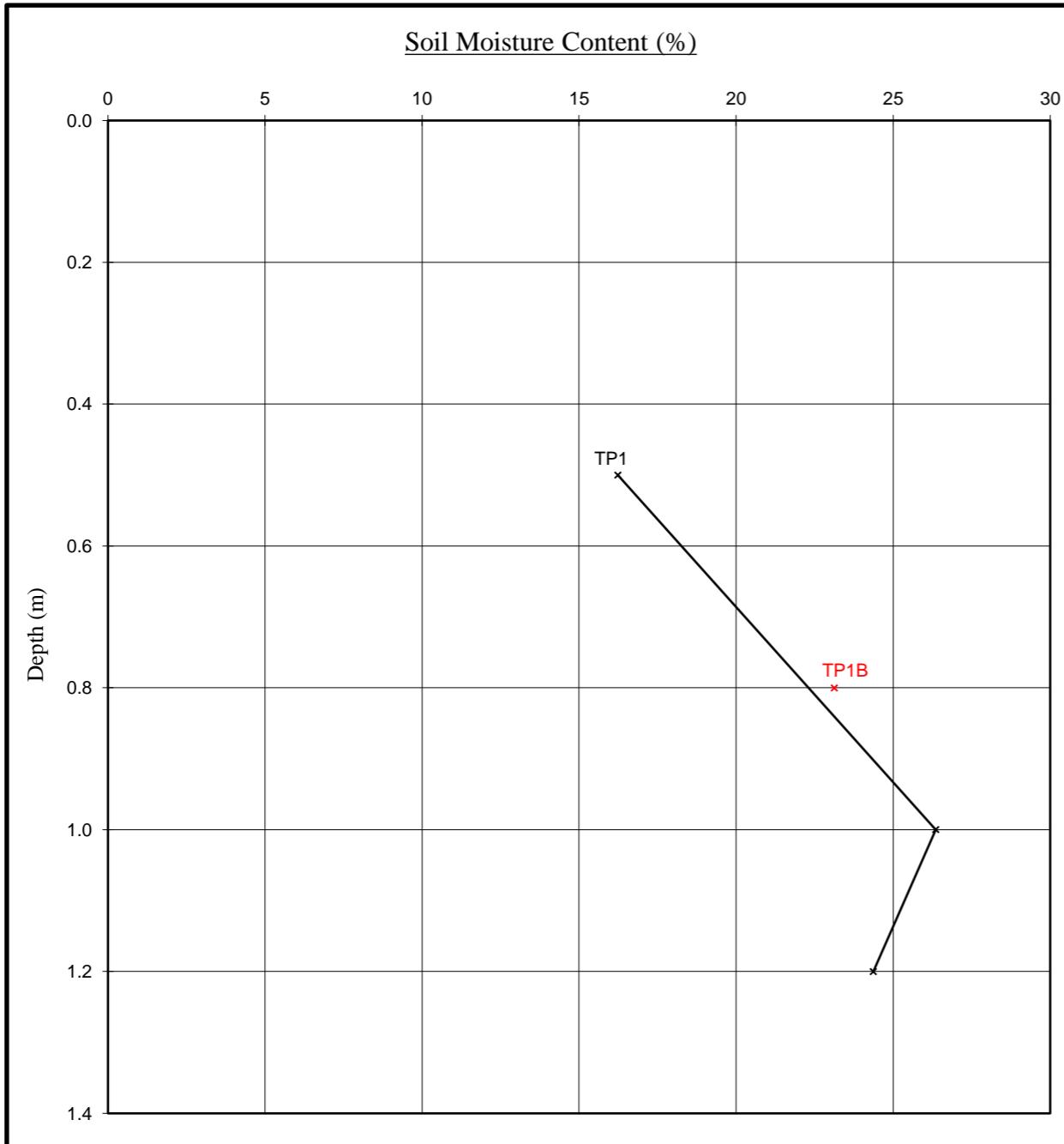
Version: 5BH V3.8 - 17.03.2023

Moisture Content Profiles

Our Ref : 560417
Location : 75 Ladygate Lane
Work carried out for: CET Property Assurance (Sedgwick International UK)

Shear Strength Profiles

Date Sampled : 24/03/2023
Date Received : 30/03/2023
Date Tested : 26/04/2023
Date of Report : 27/04/2023



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

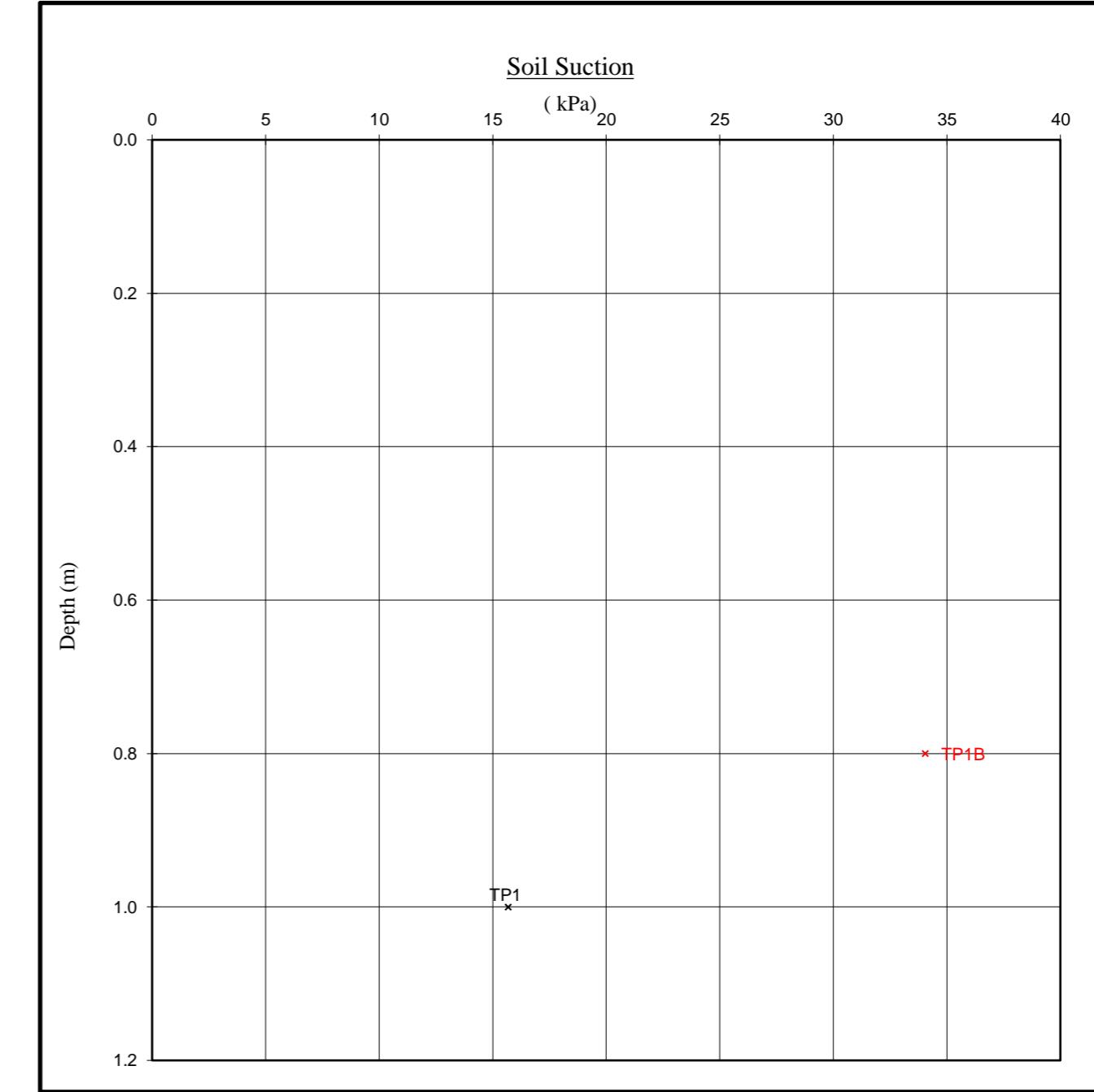
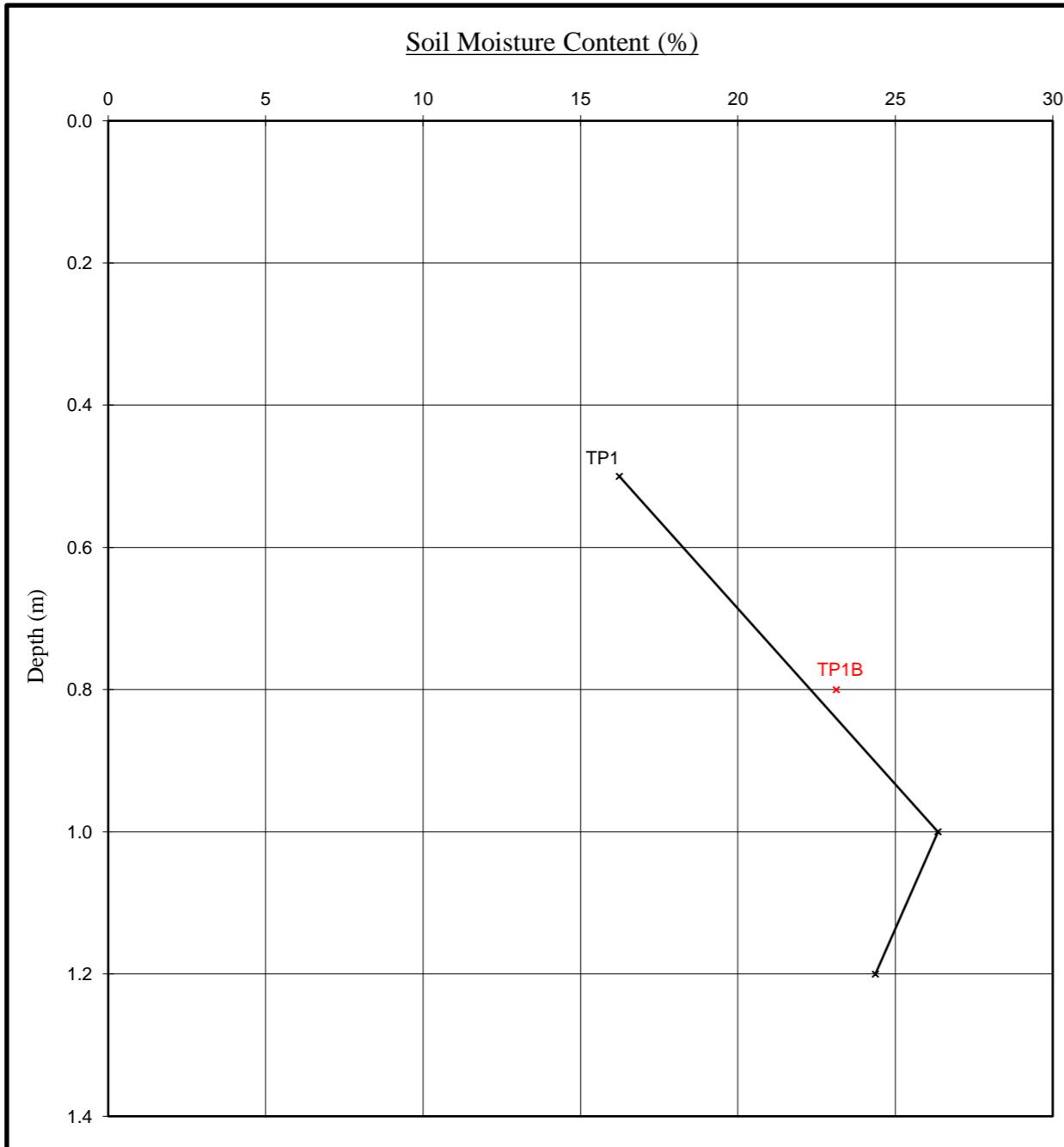
1. Unless otherwise stated, values of Shear Strength were determined in situ by CTS using a Pilcon Hand Vane the calibration of which is limited to a maximum reading of 130 kPa.
2. Unless specifically noted the profiles have not been related to a site datum.

Moisture Content Profiles

Our Ref : 560417
 Location : 75 Ladygate Lane
 Work carried out for: CET Property Assurance (Sedgwick International UK)

Soil Suction Profiles

Date Sampled : 24/03/2023
 Date Received : 30/03/2023
 Date Tested : 26/04/2023
 Date of Report : 27/04/2023



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.

Construction Testing Solutions
4 Oak Spinney Park
Ratby Lane
Leicester Forest East
Leicestershire
LE3 3AW

Intec
Parc Menai, Bangor,
Gwynedd, North Wales
LL57 4FG
Tel: 01248 672652
Fax: 01248 672601

ROOT IDENTIFICATION

75 Lady Gate Lane,

Client Reference: 560417
Report Date: 12 April 2023
Our Ref: R52045

Sub Sample	Species Identified	Root Diameter	Starch
TP1A:			
USF	<i>Quercus</i> spp.	1	1.5 mm
TP1B:			
USF	<i>Quercus</i> spp.		1 mm
USF	broadleaved species, too juvenile for positive identification	2	<1 mm
			Absent

Comments:

1 - Plus 2 others also identified as *Quercus* spp.
2 - Plus 1 other the same.

Quercus spp. are oaks (both deciduous and evergreen).

Signed: M D Mitchell

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

