

## 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](mailto:enquiries@cet-uk.com)  
█ [www.cet-uk.com](http://www.cet-uk.com)

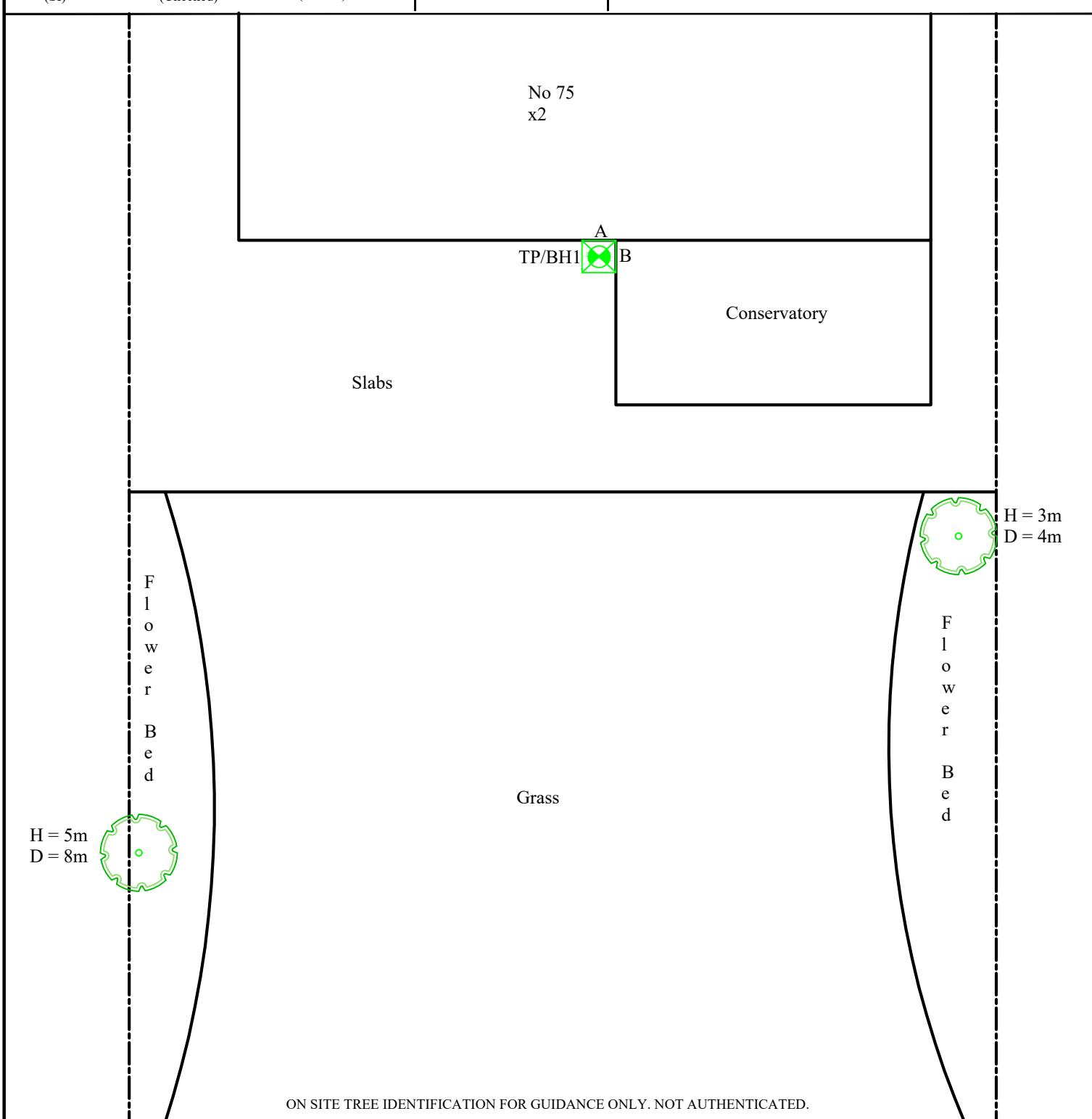
CET is the trading name of CET Structures Ltd  
Registered in England No. 02527130

# 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:	Surface Water Drain
Combined Gully	RWWG
Manhole	MH
Rain Water Pipe	RWP
Rain Water Gully	RWG
Soil Vent Pipe	SVP
Waste Gully	WG
Waste Pipe	WP
	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

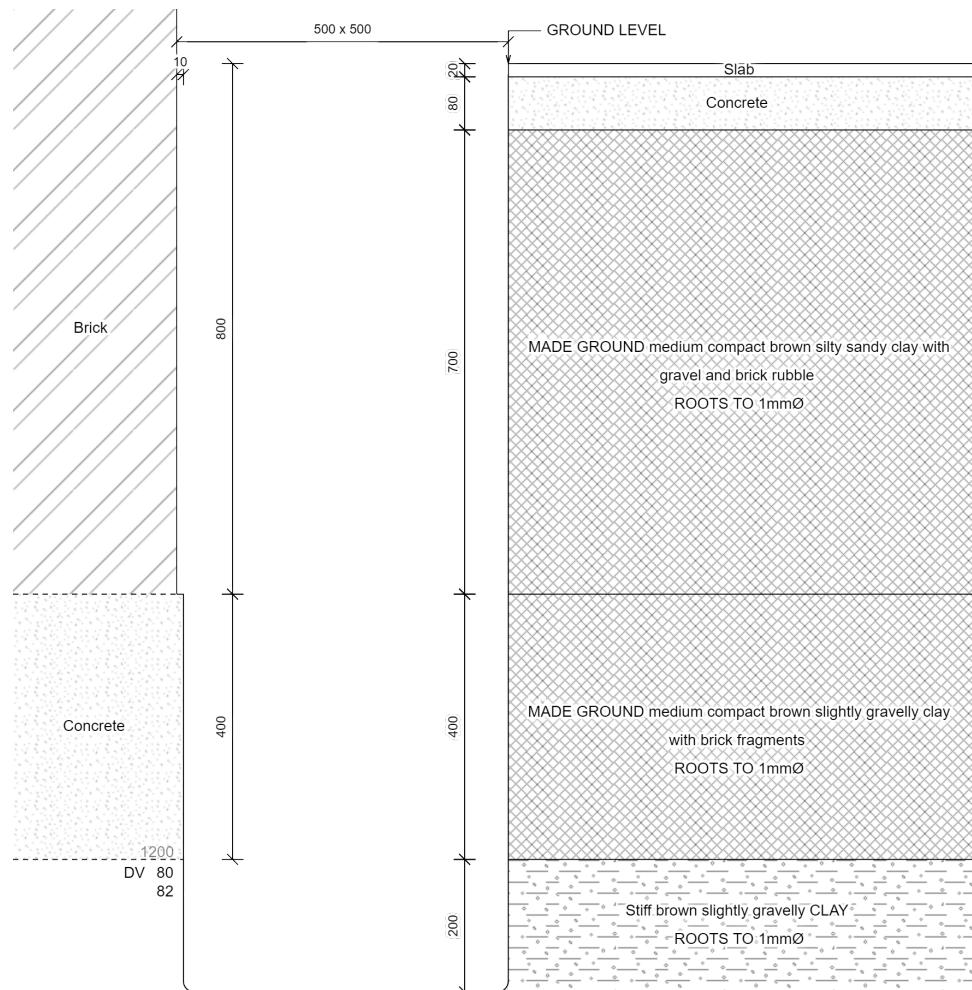
CLIENT: Sedgwick International UK

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

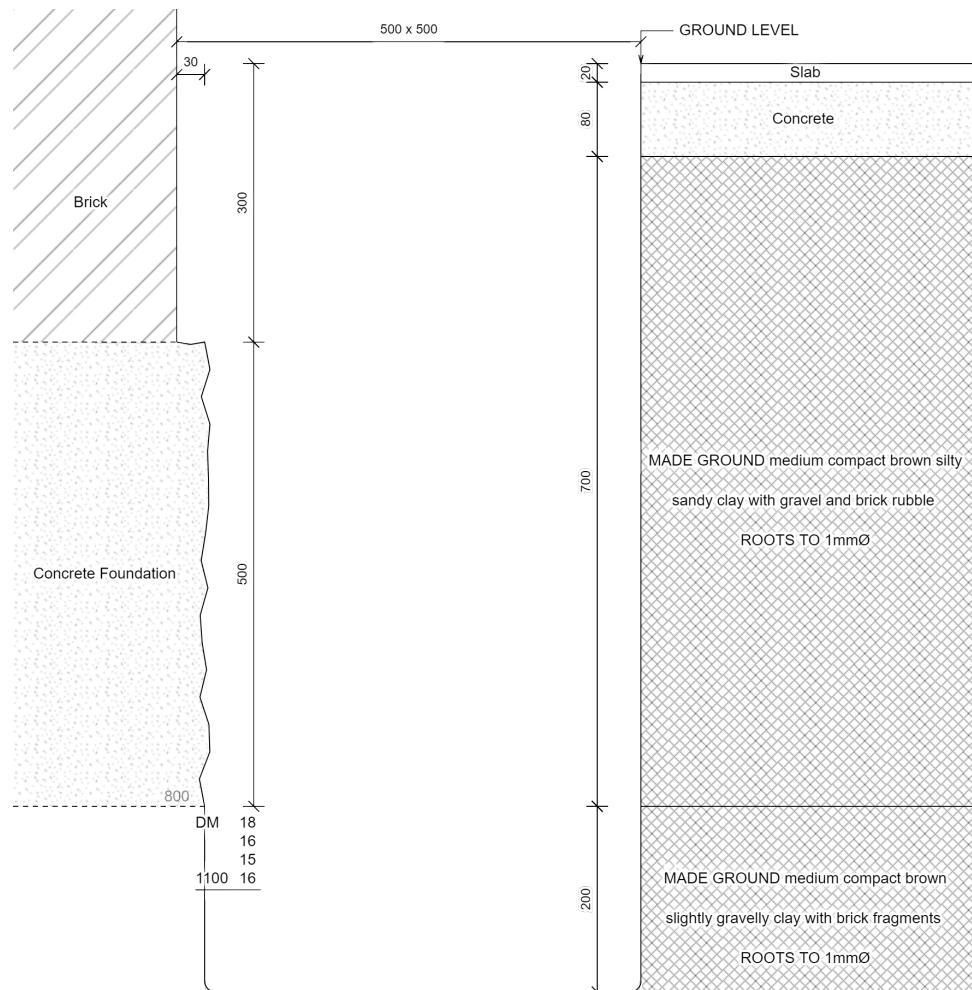
CLIENT: Sedgwick International UK

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

<b>Borehole</b>		<b>1</b>		Sheet:	1 of 1	<b>Site:</b>	75 LADYGATE LANE				
				Job No:	560417						
				Date:	24/03/2023						
Boring Method:		Hand Auger			Ground Level:		<b>Client:</b>				
Diameter (mm):		75	Weather:					SEDGWICK INTERNATIONAL UK			
Depth (m)	Soil Description						Samples and Tests				
0.00	See Trial Pit						Thickness	Legend	Depth	Type	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:			To Depth (m)	Max Dia (mm)		
					D - Disturbed Sample						
					B - Bulk Sample						
					W - Water Sample	Roots					
					J - Jar Sample	Roots					
					V - Pilcon Shear Vane (kPa)	Roots					
					M - Mackintosh Probe	Depth to Water (m)					
					TDTD - Too Dense To Drive						
Logged:	PM		Checked:		Approved:	Version	V1.0	28/01/16	N.T.S.		



## **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 Depth ( m )	Type	Moisture Content	Soil Fraction > 0.425mm	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity * Index	Modified * Plasticity Index	Soil * Class	Filter Paper Contact Time ( d )	Soil Sample Suction (kPa) [8]	Oedometer Strain	Estimated * Heave Potential (Dd) (mm)[10]	In situ * Shear Vane Strength (kPa) [11]	Organic * Content	pH Value	Sulphate Content		* Class [16]
			( % ) [1]	( % ) [2]	( % ) [3]	( % ) [4]	( % ) [5]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	( % ) [12]	[13]	SO <sub>3</sub> (g/l) * [14]	SO <sub>4</sub> (mg/l) [15]		
1A	0.50 1.00 U/S 1.20	D D D	16 26 24	48 23 19	50 55 54	17 19 19	33 36 35	-0.02 0.20 0.15	17 28 29	CH CH CH	Too gravelly 7 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 SO<sub>3</sub> 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 SO<sub>4</sub> 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

Location : 75 Ladygate Lane

Date Sampled : 24/03/2023

Client: CET Property Assurance (Sedgwick International UK)

Date Received : 30/03/2023

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

Date Tested : 26/04/2023

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) [8]	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 <sub>3</sub> (g/l) * [14]	SO <sub>4</sub> (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 &lt;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 SO<sub>3</sub> 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 SO<sub>4</sub> 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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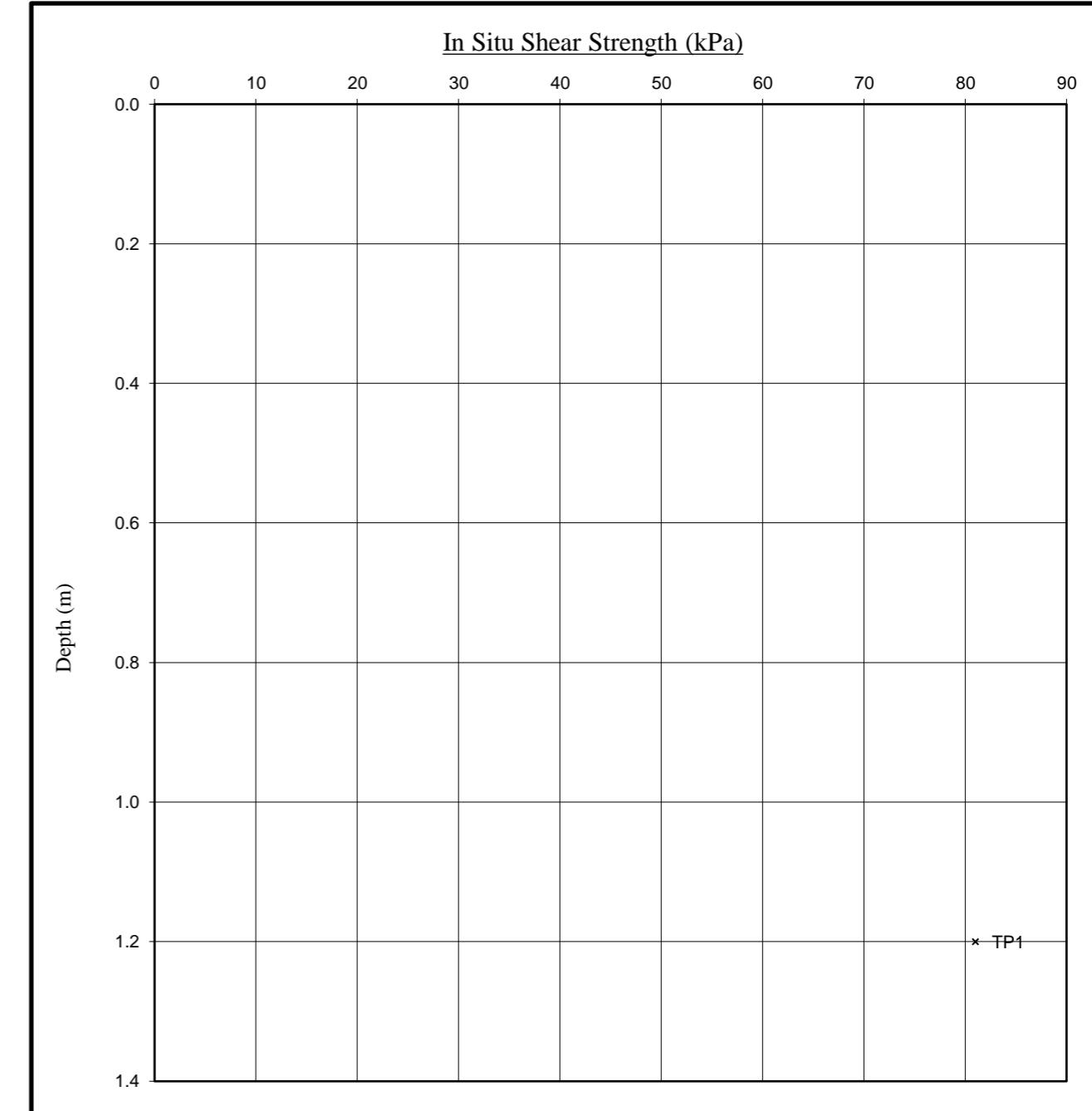
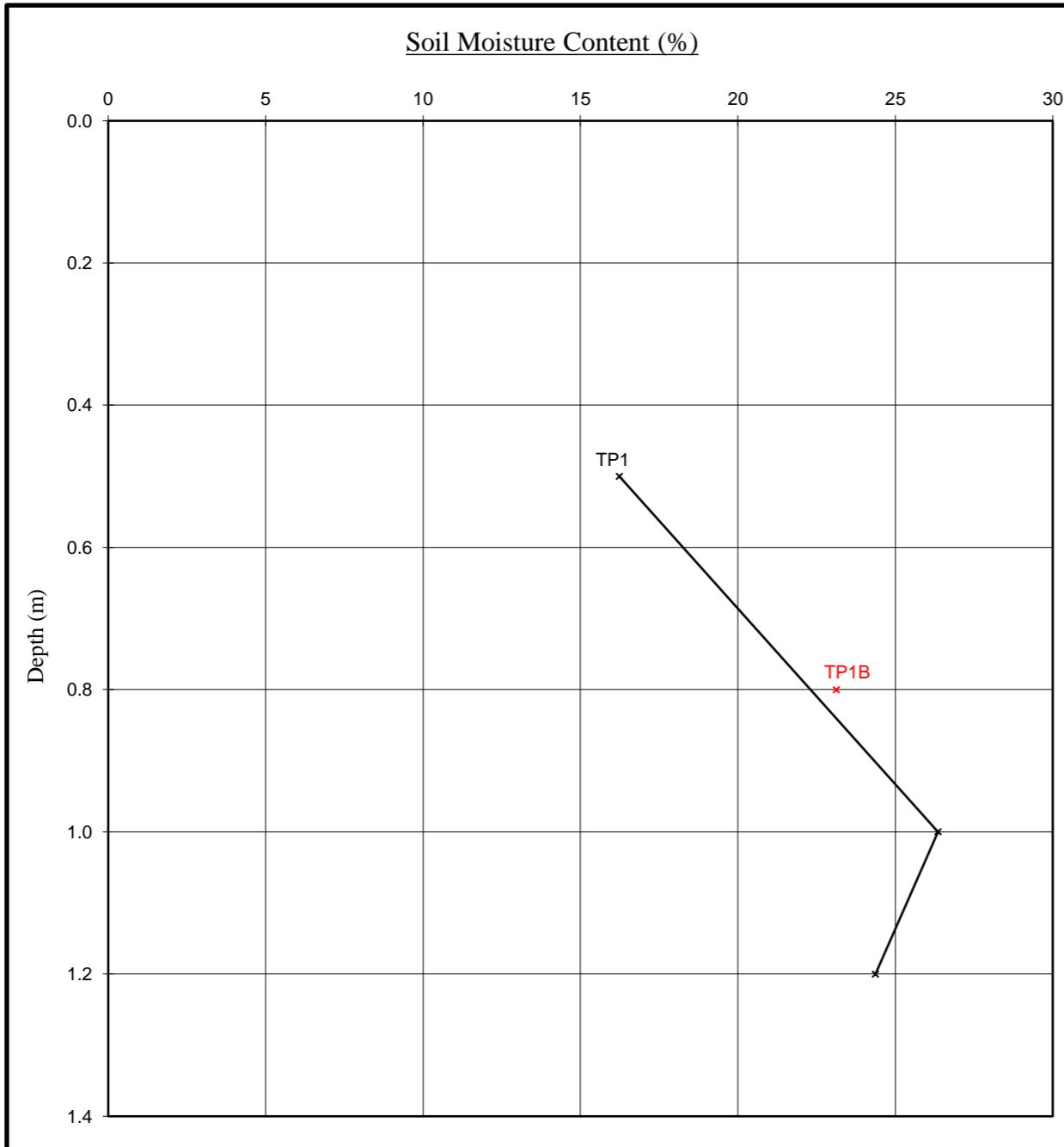
Version: 5BH V3.8 - 17.03.2023

## 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

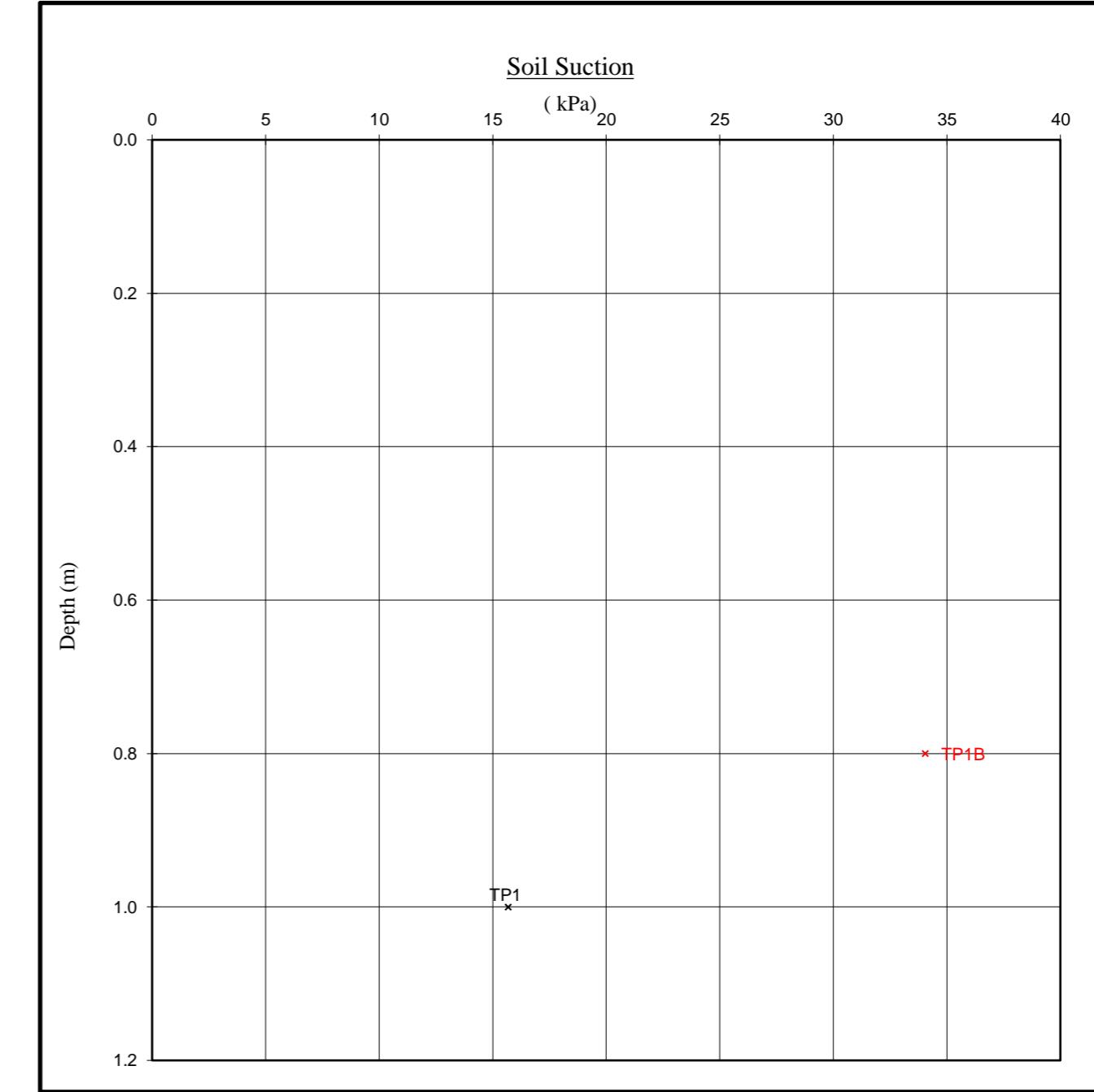
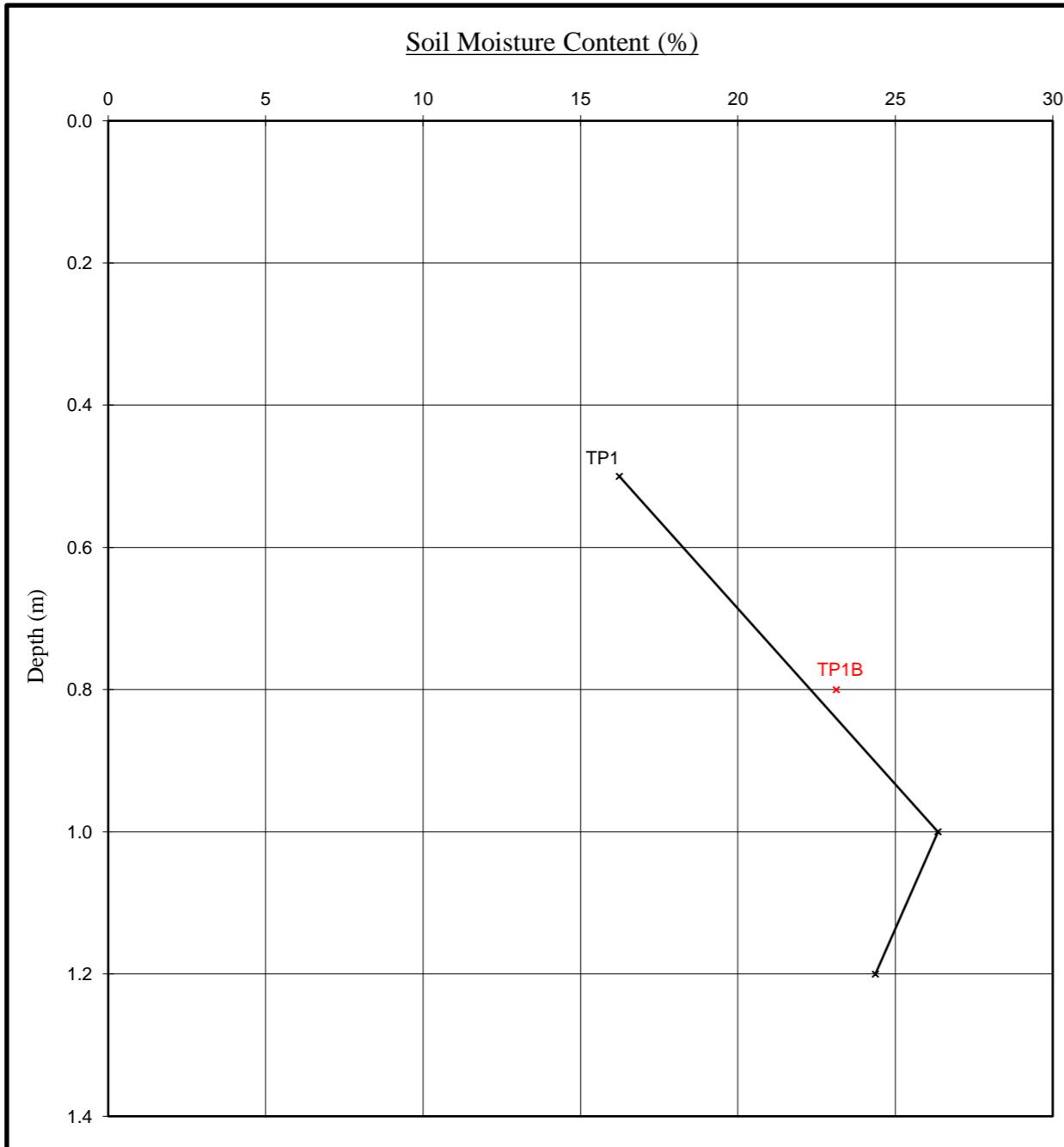
1. Unless otherwise stated, values of Shear Strength were determined in situ by CTS using a Pilcon Hand Vane the calibration of which is limited to a maximum reading of 130 kPa.
2. Unless specifically noted the profiles have not been related to a site datum.

# 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
<b>TP1A:</b>			
USF	<i>Quercus</i> spp.	1	1.5 mm
<b>TP1B:</b>			
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.

