

## 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



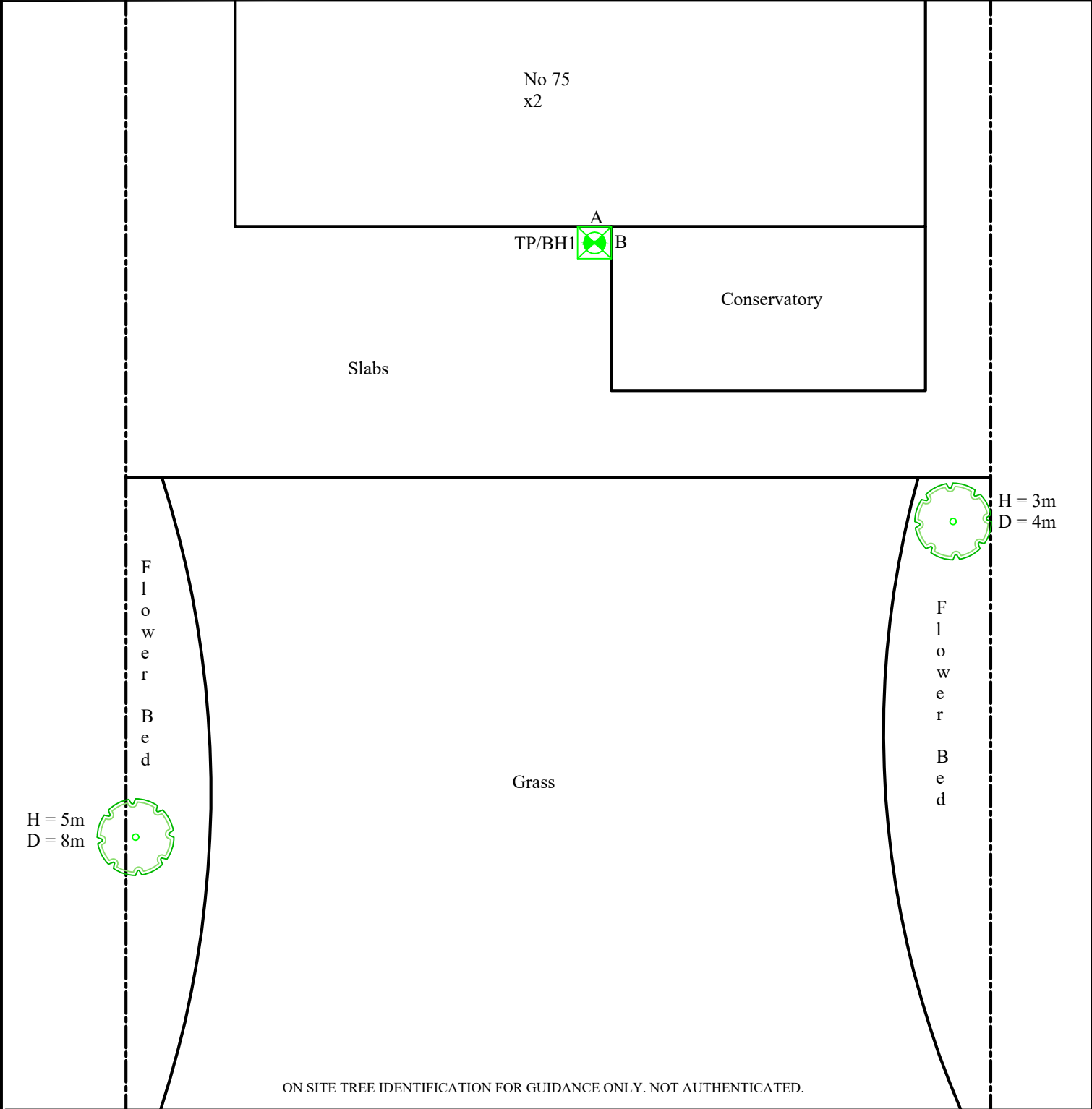
**Home Emergency Response - Subsidence Investigation - Drainage Services – Crack & Level Monitoring – Property Video Surveys**

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)

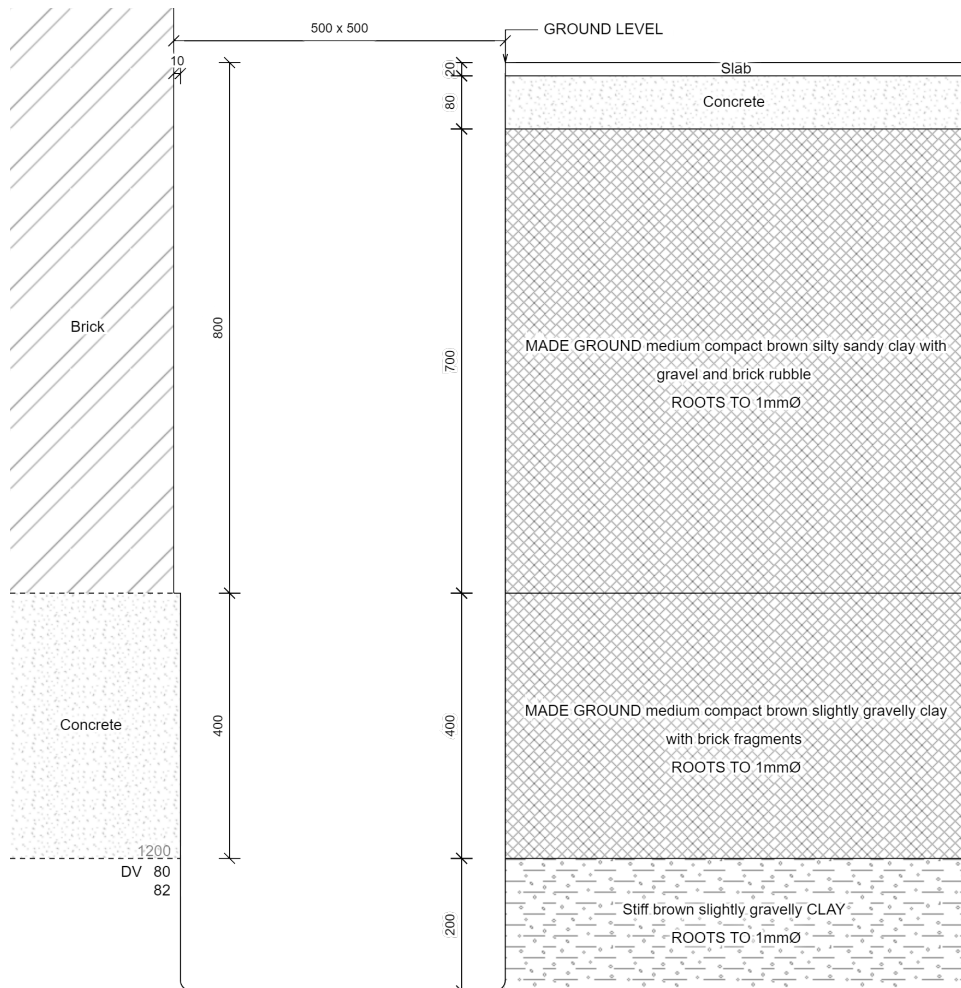
CET is the trading name of CET Structures Ltd  
Registered in England No. 02527130

<div>Investigation Layout Plan</div>			Sheet: 1 of 1	Site: 75 Ladygate Lane
			Job No: 560417	
			Date: 24/03/2023	Work carried out for: Sedgwick International
PM (SI)	SA (Checked)	LP (Drawn)	Weather: Dry	



Remarks:	Key:	Surface Water Drain		
	Combined Gulley	RWWG	Foul Water Drain	
Scale: N.T.S.	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		

<b>TEST REPORT:</b>	<b>Trial Pit</b>		
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		



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

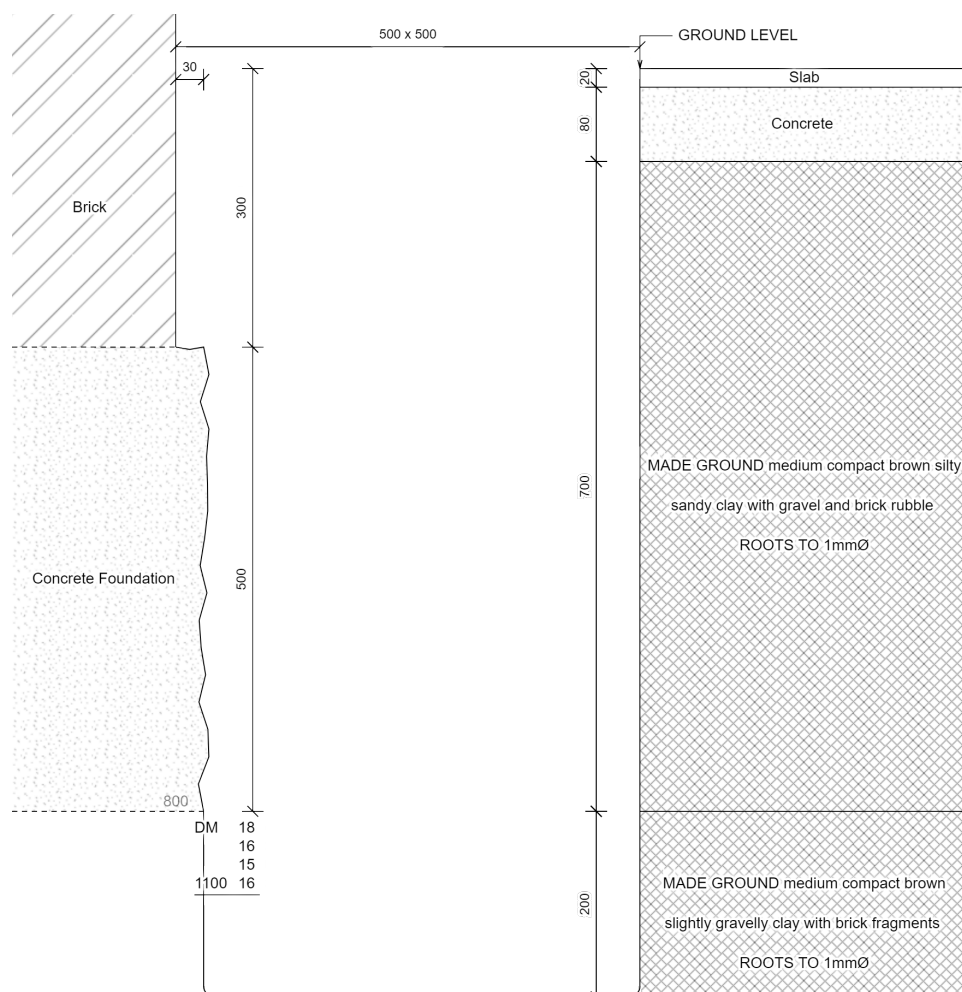
REPORT NUMBER: C1075615 / 245151.1.1.2

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.  
 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 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	Soil Description					Thickness	Legend	Samples and Tests									
(m)								Depth	Type	Result							
0.00	See Trial Pit					1.40											
1.40	Stiff brown slightly gravelly CLAY					0.10	— 9										
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      Roots J - Jar Sample      Roots V - Pilcon Shear Vane (kPa) Roots M - Mackintosh Probe      Depth to Water (m) TDTD - Too Dense To Drive	To Depth (m)	Max Dia (mm)										
								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

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 No	Depth ( m )																	SO3 (g/l) * [14]	SO4 (mg/l) [15]	
1	0.50	D	16	48	50	17	33	-0.02	17	CH	Too gravelly									
1A	1.00	D	26	23	55	19	36	0.20	28	CH	7	15.7								
	U/S 1.20	D	24	19	54	19	35	0.15	29	CH	Too gravelly				81					

### 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



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.

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

Construction Testing Solutions Ltd - Lawness Barns, Mountnessing Road, Billericay, Essex, CM12 0TS

Version: 5BH V3.8 - 17.03.2023

Laboratory Testing Results

Our Ref : 560417  
Location : 75 Ladygate Lane  
Client: CET Property Assurance (Sedgwick International UK)  
Address: Unit 4, Boundary Court, Willow Farm Business Park, Castle Donington, DE74 2NN

Date Sampled : 24/03/2023  
Date Received : 30/03/2023  
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 )	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 )																	SO3 (g/l) *	SO4 (mg/l)	
																		[14]	[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  
\* 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

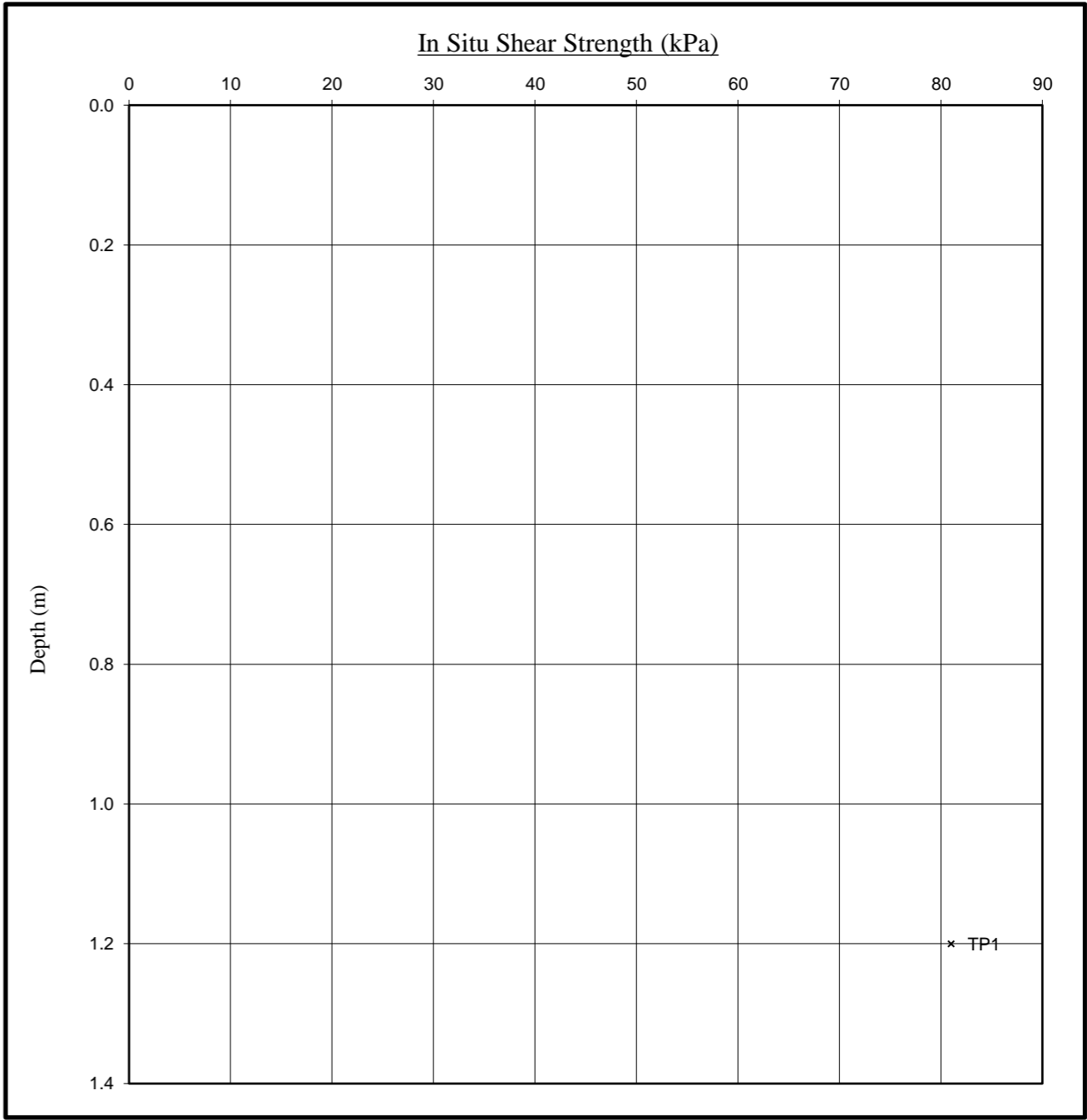
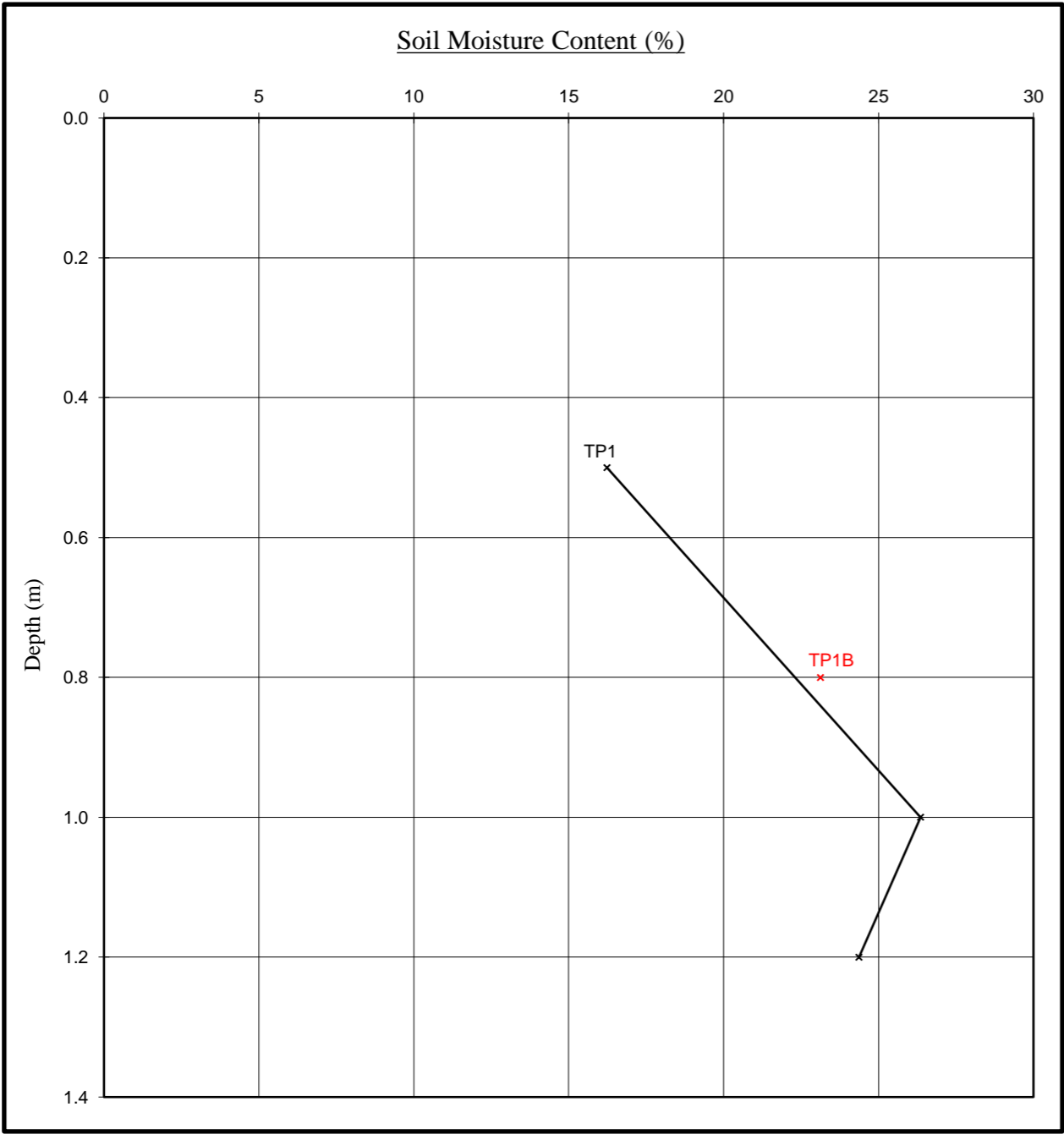


Test results reported relate only to the items tested.  
This report shall not be reproduced except in full without approval of the laboratory.  
The laboratory does not apply a conformity statement to test reports as standard, unless specifically requested by the customer.  
Opinions and interpretations expressed herein are outside of the scope of UKAS accreditation.

# Moisture Content Profiles

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

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.

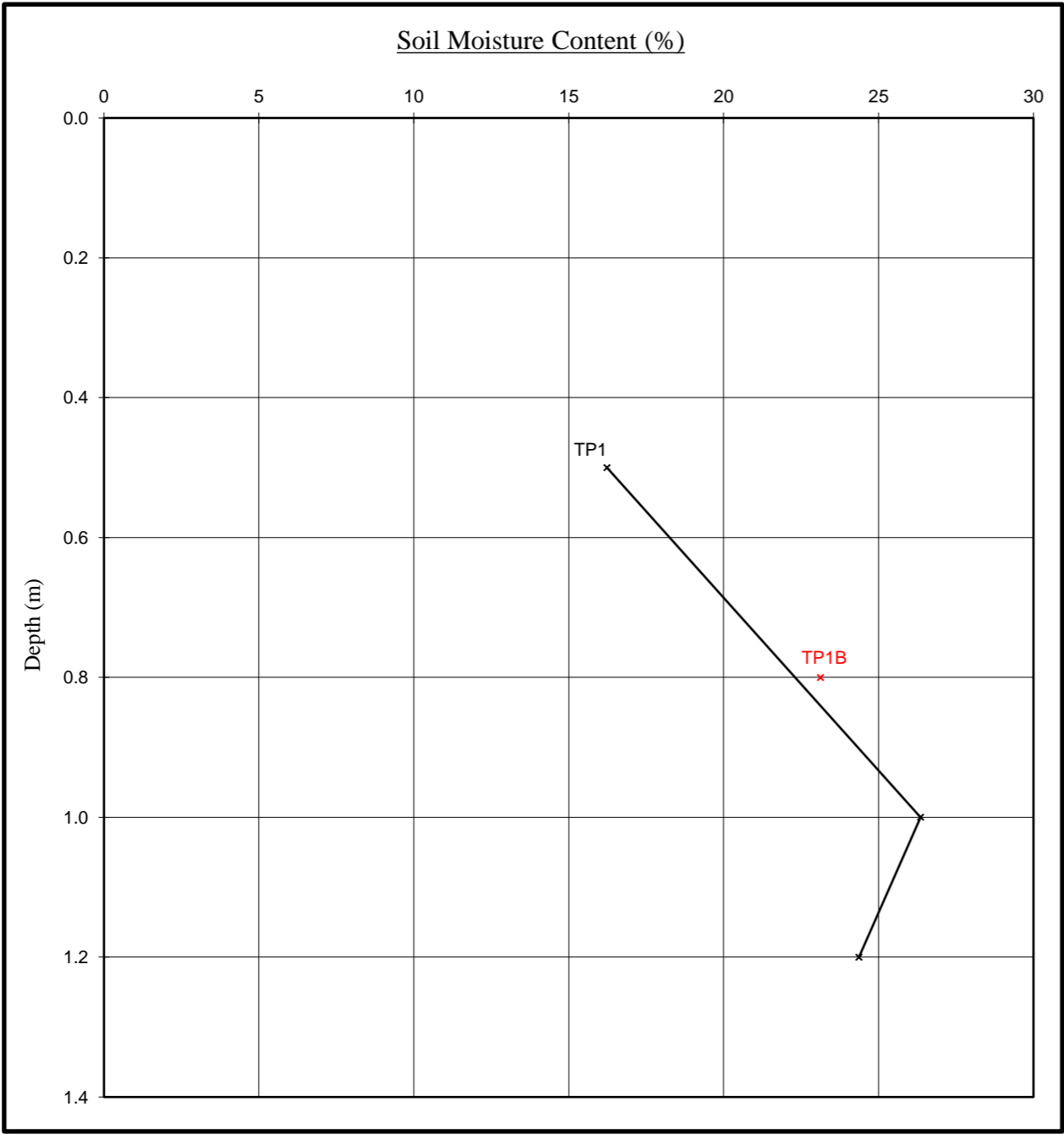
Note

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

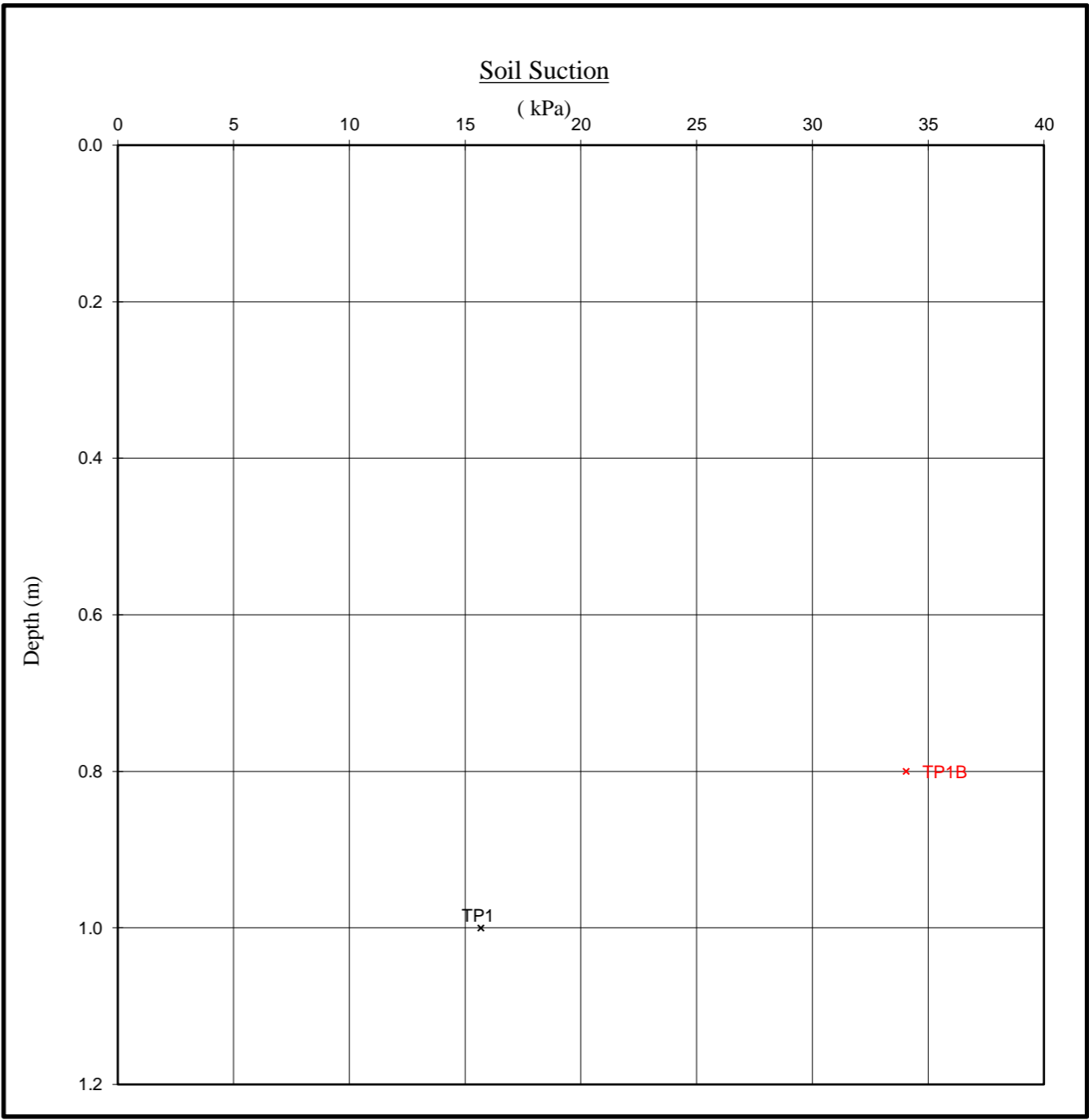
Our Ref : 560417  
Location : 75 Ladygate Lane  
Work carried out for: CET Property Assurance (Sedgwick International UK)



- 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.

# Soil Suction Profiles

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



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	Moderate
<b>TP1B:</b>				
USF	<i>Quercus</i> spp.		1 mm	Moderate
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.