



SITE INVESTIGATION FACTUAL REPORT

Report No: SI-875453
Client: Sedgwick International UK - Morley
Site: 31 Firs Avenue
Hampshire
Client Ref: 9633067
Date of Visit: 23/08/2024



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

East Building, Cable Drive, Walsall, WS2 7BN

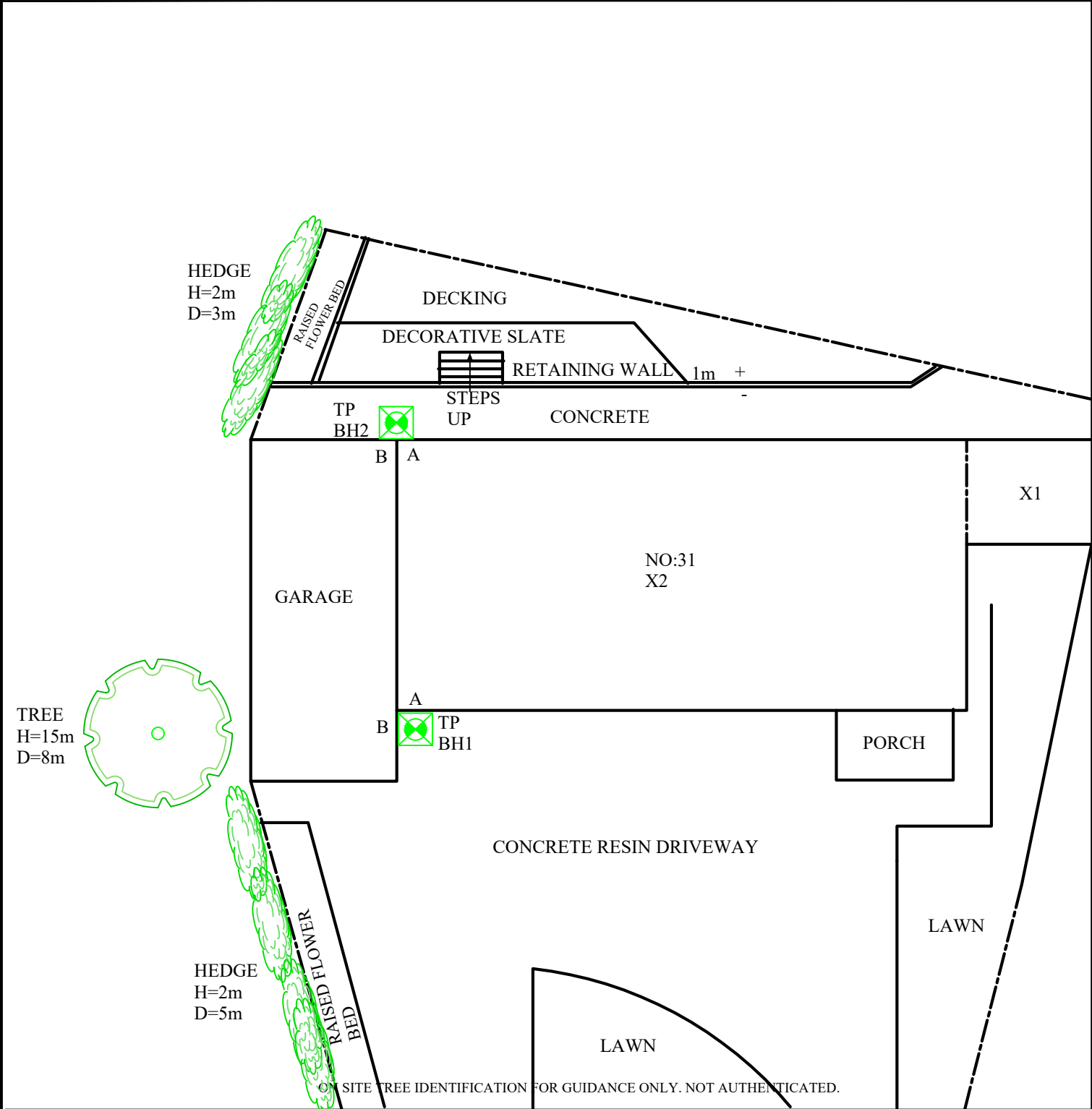
☎ 0333 016 4477

✉ siinstructions@cet-uk.com

🌐 www.cet-uk.com

CET is the trading name of CET Structures Ltd

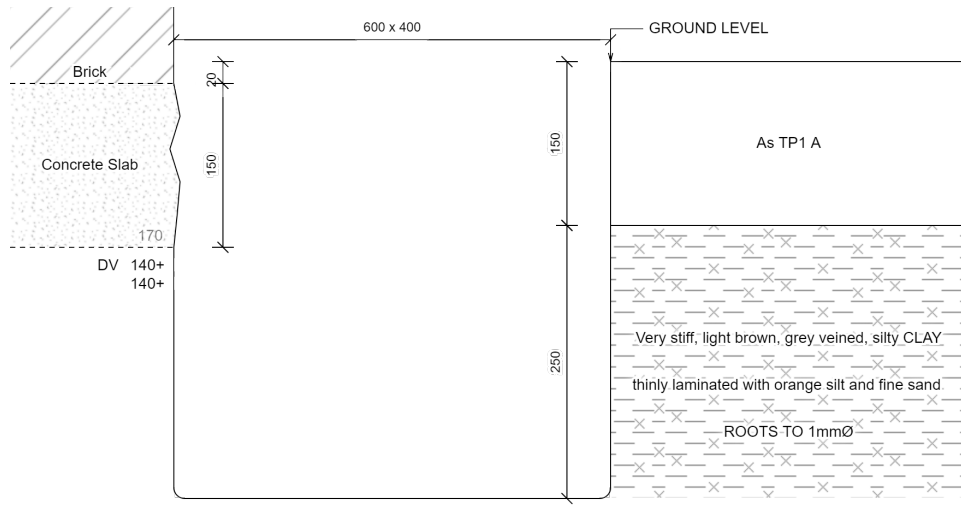
Registered in England No. 02527130



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

REPORT NUMBER: C5002181 / 307970.1.1.2
TRIAL PIT REF: TP 1 B
CLIENT: Sedgwick International UK
JOB NO: 875453
EXCAVATION METHOD: Hand tools

DATE: 23/08/2024
SITE: 31 Firs Avenue
WEATHER: Dry



Trial pit ends at 400mm

Curved steel pin driven under concrete 200mm at 170mm below ground level.

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:

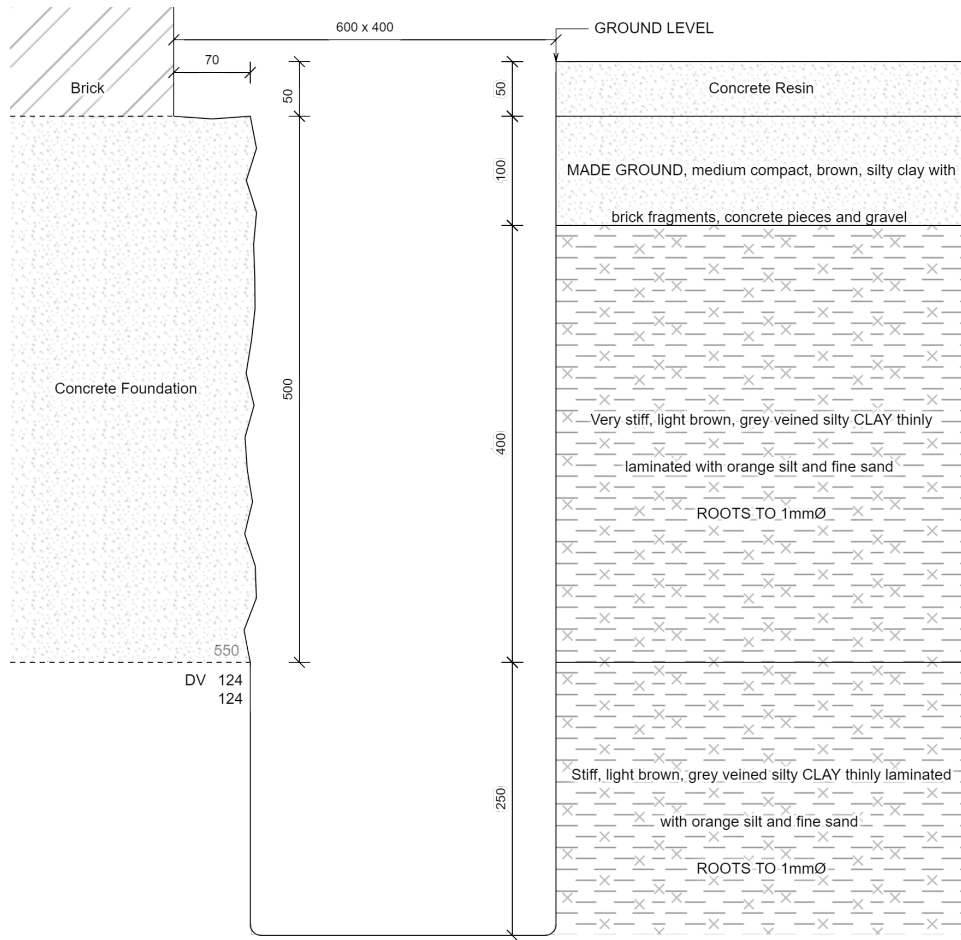
Test results reported relate only to the items tested.
This report shall not be reproduced except in full without approval of the Laboratory.
The laboratory does not apply a conformity statement to test reports as standard, unless specifically requested by the customer.

For and on behalf of CTS
Adam Mason - Quality Control

Approved Signatory
Report date 27-Aug-24

REPORT NUMBER: C5002181 / 307970.1.1.1
TRIAL PIT REF: TP1 A
CLIENT: Sedgwick International UK
JOB NO: 875453
EXCAVATION METHOD: Hand tools

DATE: 23/08/2024
SITE: 31 Firs Avenue
WEATHER: Dry



For Strata below 800mm see Bore Hole log

Curved steel pin driven under concrete 200mm at 550mm below ground level.

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:
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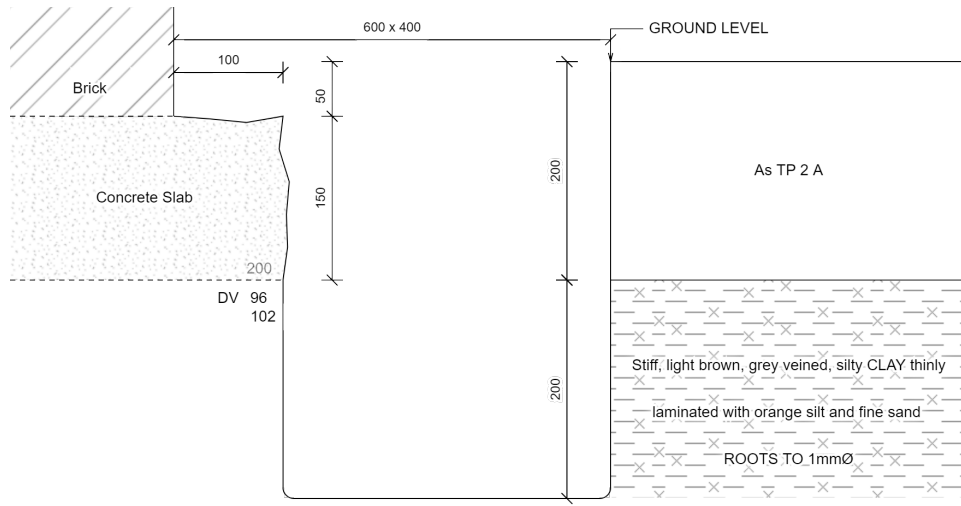
For and on behalf of CTS
Adam Mason - Quality Control

Approved Signatory
Report date 27-Aug-24

Borehole		1	Sheet:		1 of 1	Site:	31 FIRS AVENUE				
			Job No:		875453						
			Date:		23/08/2024						
Boring Method:		Hand Auger		Ground Level:		Client:	SEDGWICK INTERNATIONAL UK				
Diameter (mm):		75	Weather:		Dry						
Depth	Soil Description					Thickness	Legend	Samples and Tests			
(m)								Depth	Type	Result	
0.00	See Trial Pit					0.80					
0.80	Stiff light brown, grey veined sandy CLAY thinly laminated with orange silt and fine sand					0.70					
								1.00	DV	132	
										136	
1.50	Very stiff light brown, grey veined silty CLAY thinly laminated with orange silt and fine sand					1.50		1.50	DV	140+	
										140+	
								2.00	DV	140+	
										140+	
								2.50	DV	140+	
										140+	
3.00	Stiff mid brown, grey veined silty CLAY with partings of orange silt and fine sand					1.50		3.00	DV	136	
										130	
								3.50	DV	128	
										128	
								4.00	DV	130	
										136	
4.50	Very stiff mid brown, grey veined silty CLAY with partings of orange silt and fine sand					0.50		4.50	DV	140+	
										140+	
								5.00	DV	140+	
5.00	End of BH									140+	
Remarks: BH ends at 5.0m. BH dry and open on completion, no roots observed below 2.3m.					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 Max Depth Dia (m) (mm) 2.30 1	
Logged:	KP	AM	Checked:	Approved:	Version	V1.0 28/01/16		N.T.S.			

REPORT NUMBER: C5002181 / 307970.1.1.4
TRIAL PIT REF: TP2 B
CLIENT: Sedgwick International UK
JOB NO: 875453
EXCAVATION METHOD: Hand tools

DATE: 23/08/2024
SITE: 31 Firs Avenue
WEATHER: Dry



Trial pit ends at 400mm

Curved steel pin driven under concrete 200mm at 200mm below ground level.

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:

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For and on behalf of CTS
Adam Mason - Quality Control

Approved Signatory
Report date 27-Aug-24

DATE: 23/08/2024
SITE: 31 Firs Avenue
WEATHER: Dry



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		

For and on behalf of CTS
Adam Mason - Quality Control

Approved Signatory
Report date 27-Aug-24

0343 227 8545
enquiries@constructiontesting.co.uk
www.constructiontesting.co.uk
END OF REPORT

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1

Page 1 of 1

Borehole		2		Sheet:	1 of 1	Site:	31 FIRS AVENUE				
				Job No:	875453						
				Date:	23/08/2024						
Boring Method:		Hand Auger		Ground Level:		Client:	SEDGWICK INTERNATIONAL UK				
Diameter (mm):		75	Weather:		Dry						
Depth	Soil Description					Thickness	Legend	Samples and Tests			
(m)								Depth	Type	Result	
0.00	See Trial Pit					0.70					
0.70	Stiff light brown, grey veined silty CLAY thinly laminated with orange silt and fine sand					3.50	x _ x				
							x _ x				
							x _ x				
							x _ x	1.00	DV	108	
							x _ x			108	
							x _ x				
							x _ x				
							x _ x				
							x _ x	1.50	DV	110	
							x _ x			112	
							x _ x				
							x _ x				
							x _ x				
							x _ x	2.00	DV	100	
							x _ x			90	
							x _ x				
							x _ x				
							x _ x				
							x _ x	2.50	DV	88	
							x _ x			82	
							x _ x				
							x _ x				
							x _ x				
							x _ x	3.00	DV	104	
							x _ x			112	
							x _ x				
							x _ x				
							x _ x				
							x _ x	3.50	DV	120	
							x _ x			122	
							x _ x				
							x _ x				
							x _ x	4.00	DV	132	
x _ x			136								
4.20	Stiff moist grey silty CLAY with partings of orange silt and fine sand					0.30	x _ x				
4.50	Very stiff moist grey silty CLAY with partings of orange silt and fine sand					0.50	x _ x	4.50	DV	140+	
							x _ x			140+	
							x _ x				
							x _ x	5.00	DV	140+	
5.00	End of BH									140+	
Remarks: BH ends at 5.0m. BH moist and open on completion, no roots observed below 2.1m.					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:					KP	AM	Checked:	Approved:	Version	V1.0 28/01/16	N.T.S.

SITE INVESTIGATION LABORATORY TEST REPORT

SI REPORT NUMBER: 875453

CLIENT : CET Property Assurance (Sedgwick International UK)

SITE:
31 Firs Avenue, Waterloooville
Hampshire
PO8 8RS

DATE OF SITE VISIT:
23/08/2024

DATE RECEIVED BY LABORATORY:
29/08/2024

Approved by : 
C Kosma - Project Delivery Supervisor

DATE REPORTED: 2-Sep-2024

The testing on this report has been subcontracted, see Summary for testing
Laboratory details

Our Ref :

875453

Location :

31 Firs Avenue, Waterlooville

Client:

CET Property Assurance (Sedgwick International UK)

Address:

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

Laboratory Summary Results

Date Sampled:

23/08/2024

Date Received :

29/08/2024

Date Tested :

30/08/2024

Date of Report :

02/09/2024

Sample Ref		Type	# Moisture Content	# Soil Fraction > 0.425mm	# Liquid Limit	# Plastic Limit	~ Plasticity Index	~ Liquidity Index	~ Modified * Plasticity Index	~ Soil * Class	# Filter Paper Contact Time	# Soil Sample Suction	# Oedometer Strain	~ Estimated * Heave Potential (Dd)	In situ * Shear Vane Strength	Organic * Content	pH Value	Sulphate Content		* Class
TP/BH No	Depth (m)																	SO3 (g/l) *	SO4 (mg/l)	
																		(%) [1]	(%) [2]	
1	U/S B 0.17	D	22	<5	56	22	34	-0.01	34	CH					> 140					
	U/S A 0.55	D	22	<5	62	24	38	-0.05	38	CH					124					
	1.0	D	22	<5	61	25	36	-0.07	36	CH					134					
	1.5	D	23	<5											> 140					
	2.0	D	28	<5	74	27	47	0.02	47	CV					> 140					
	2.5	D	26	<5											> 140					
	3.0	D	29	<5											134					
	3.5	D	31	<5											128					
	4.0	D	28	<5											134					
	4.5	D	29	<5											> 140					
5.0	D	26	<5											> 140						

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

~ Calculations performed using subcontracted data.

* These tests are not UKAS accredited

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.

These tests have been subcontracted and carried out by PSL (Part of the Phenna Group)

Full reports can be provided upon request.

Version: BH V1 SUBCON - 28.03.2023

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

Our Ref :

875453

Location :

31 Firs Avenue, Waterlooville

Client:

CET Property Assurance (Sedgwick International UK)

Address:

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

Laboratory Summary Results

Date Sampled :

23/08/2024

Date Received :

29/08/2024

Date Tested :

30/08/2024

Date of Report :

02/09/2024

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]
2	U/S B 0.20	D	26	<5	61	25	36	0.04	36	CH					100						
	U/S A 0.55	D	28	<5	64	26	38	0.05	38	CH					106						
	1.0	D	30	<5	54	21	33	0.27	33	CH					108						
	1.5	D	29	<5											112						
	2.0	D	30	<5	56	25	31	0.17	31	CH					96						
	2.5	D	28	<5											86						
	3.0	D	32	<5											108						
	3.5	D	30	<5											122						
	4.0	D	31	<5											134						
	4.5	D	28	<5											> 140						
	5.0	D	28	<5											> 140						

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

~ Calculations performed using subcontracted data.

* These tests are not UKAS accredited

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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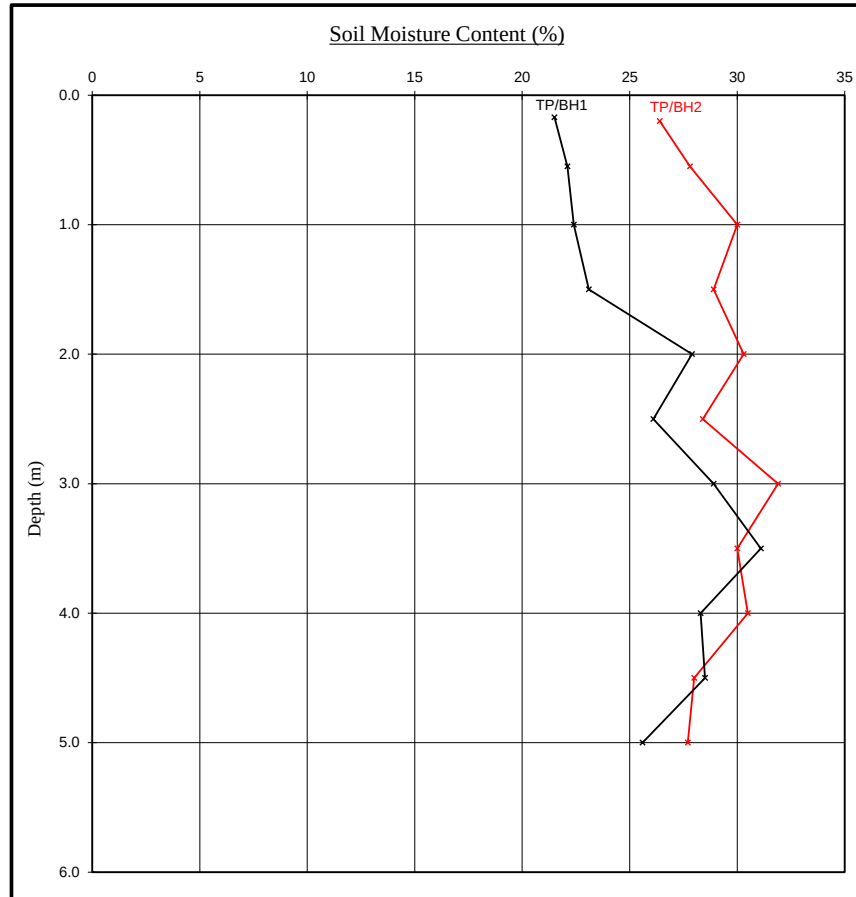
Full reports can be provided upon request.

Version: BH V1 SUBCON - 28.03.2023

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

Moisture Content Profiles

Our Ref : 875453
 Location : 31 Firs Avenue, Waterloooville
 Work carried out for: CET Property Assurance (Sedgwick International UK)

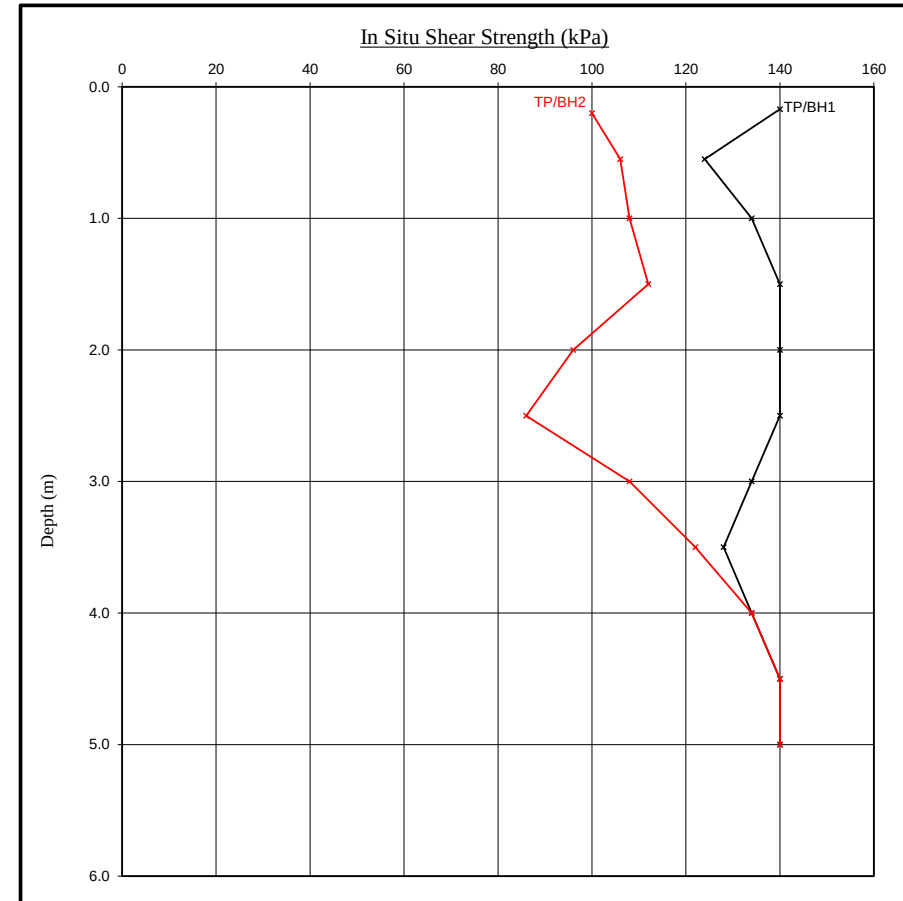


Notes

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.

Shear Strength Profiles

Date Sampled : 23/08/2024
 Date Received : 29/08/2024
 Date Tested : 30/08/2024
 Date of Report : 02/09/2024



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.

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

31 Firs Avenue

Client Reference: 875453
Report Date: 28 August 2024
Our Ref: R58547

Sub Sample	Species Identified		Root Diameter	Starch
TP1(A):				
USF	probably <i>Quercus</i> spp. but possibly <i>Castanea</i> spp.	1	<1 mm	Low
TP1 (B):				
USF	probably <i>Quercus</i> spp. but possibly <i>Castanea</i> spp.	2	<1 mm	Abundant
BH1:				
to 2.3m	probably <i>Quercus</i> spp. but possibly <i>Castanea</i> spp.	3	1.5 mm	Moderate
TP2(A):				
USF	probably <i>Quercus</i> spp. but possibly <i>Castanea</i> spp.		3 mm	Low
TP2(B):				
USF	probably <i>Quercus</i> spp. but possibly <i>Castanea</i> spp.		<1 mm	Low
BH2:				
to 2.1m	probably <i>Quercus</i> spp. but possibly <i>Castanea</i> spp.	4	1 mm	Absent

Comments:

- 1 - Plus 2 others the same.
- 2 - Plus 4 others the same.
- 3 - Plus 4 others the same.
- 4 - Plus 4 others the same. All roots in this sub-sample very decayed.

Quercus spp. are oaks. *Castanea* spp. include sweet chestnut.

Signed: G S Turner

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

