SITE INVESTIGATION
FACTUAL REPORT

Report No: SI-642741

Client: Sedgwick International UK - Maidstone

Site: Flat 2, Kenilworth Place, Basildon

Client Ref: 9743486

Date of Visit: 19/06/2023

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

Investigation Layout Plan

Sheet: 1 of 1

Job No: 642741

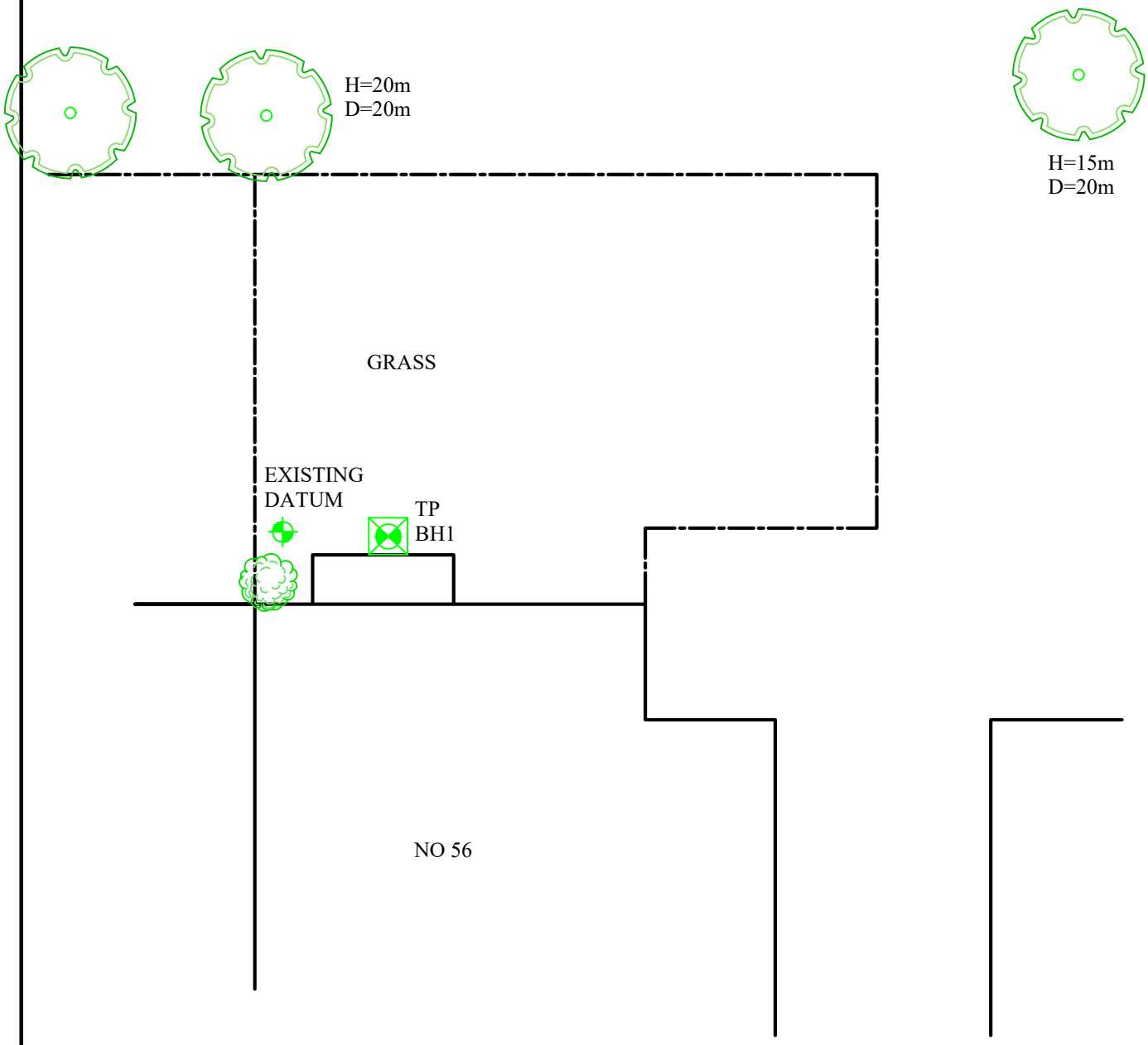
Date: 10/06/23

Site: Flat 2, Kenilworth Place

Work carried out for: Sedgwick International UK

KP	SA	MD
(SI)	(Checked)	(Drawn)

Weather: Dry



ON SITE TREE IDENTIFICATION FOR GUIDANCE ONLY. NOT AUTHENTICATED.

Remarks:

Scale: N.T.S.

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

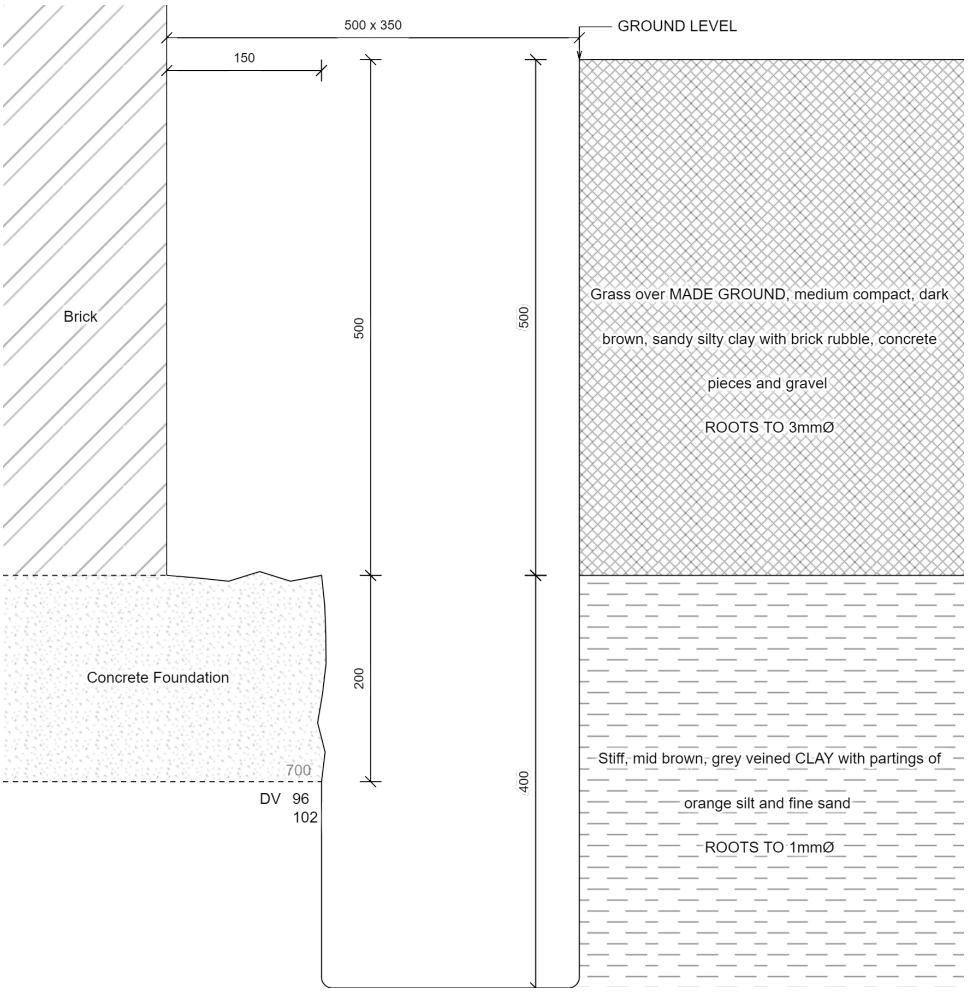
Tree / Bush (approx. ht in m)

Trial Pit

Borehole

O/D - Open Discharge

TEST REPORT:	**Trial Pit**		
REPORT NUMBER:	C1078165 / 257959.1.1.1		
TRIAL PIT REF:	TP1	DATE:	10/06/2023
CLIENT:	Sedgwick International UK	SITE:	KENILWORTH PLACE
JOB NO:	642741	WEATHER:	Dry
EXCAVATION METHOD:	Hand tools		



For Strata below 900mm 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.

For and on behalf of CTS
Adam Mason - Quality Control

Approved Signatory
Report date 14-Jun-23

Lawness Barns
Mountnessing Road
Billericay
Essex CM12 0TS

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enquiries@constructiontesting.co.uk
www.constructiontesting.co.uk
END OF REPORT

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Borehole	1		Sheet:	1 of 1	Site:	KENILWORTH PLACE
			Job No:	642741		
			Date:	10/06/2023		
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	0.90				
0.90	Stiff mid brown, grey veined CLAY with partings of orange silt and fine sand	0.60		1.00	DV	114
						116
1.50	Very stiff mid brown, grey veined CLAY with partings of orange silt and fine sand	3.50		1.50	DV	140+
						140+
				2.00	DV	140+
						140+
				2.50	DV	140+
						140+
				3.00	DV	140+
						140+
				3.50	DV	140+
						140+
				4.00	DV	140+
						140+
				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 2.2m. Datum not installed as already one in place to right hand side of bay.

Key:

		To Depth (m)	Max Dia (mm)
D - Disturbed Sample			
B - Bulk Sample			
W - Water Sample	Roots	2.20	1
J - Jar Sample	Roots		
V - Pilcon Shear Vane (kPa	Roots		
M - Mackintosh Probe	Depth to Water (m)		

TDTD - Too Dense To Drive

Logged:	KP	AM	Checked:	Approved:	Version	V1.0 28/01/16	N.T.S.

SITE INVESTIGATION
LABORATORY TEST REPORT

SI REPORT NUMBER: 642741

CLIENT : CET Property Assurance (Sedgwick International UK)

SITE:
Kenilworth Place
Basildon
Essex
SS15 4DQ

DATE OF SITE VISIT:
10/06/2023

DATE RECEIVED BY LABORATORY:
12/06/2023

Approved by : D.Wilkinson.....
D Wilkinson - Laboratory Coordinator

DATE REPORTED: 5-Jul-2023

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

Our Ref : 642741

Laboratory Summary Results

Date Sampled: 10/06/2023

Location : Kenilworth Place

Date Received : 12/06/2023

Client: CET Property Assurance (Sedgwick International UK)

Date Tested : 28/06/2023

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

Date of Report : 05/07/2023

Sample Ref TP/BH No	Depth (m)	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 SO_3 (g/l) * *[14]*	Sulphate Content SO_4 (mg/l) *[15]*	* Class *[16]*
1	U/S 0.70	D	30	<5	83	31	52	-0.02	52	CV	7	181			99					
	1.0	D	27	<5											115					
	1.5	D	28	<5	92	33	59	-0.09	59	CE	7	962			> 140					
	2.0	D	31	<5											> 140					
	2.5	D	32	<5	92	34	58	-0.04	58	CE	7	826			> 140					
	3.0	D	31	<5											> 140					
	3.5	D	31	<5	90	34	56	-0.05	56	CE	7	794			> 140					
	4.0	D	31	<5											> 140					
	4.5	D	31	<5							7	765			> 140					
	5.0	D	34	<5							7	587			> 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

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

Full reports can be provided upon request.

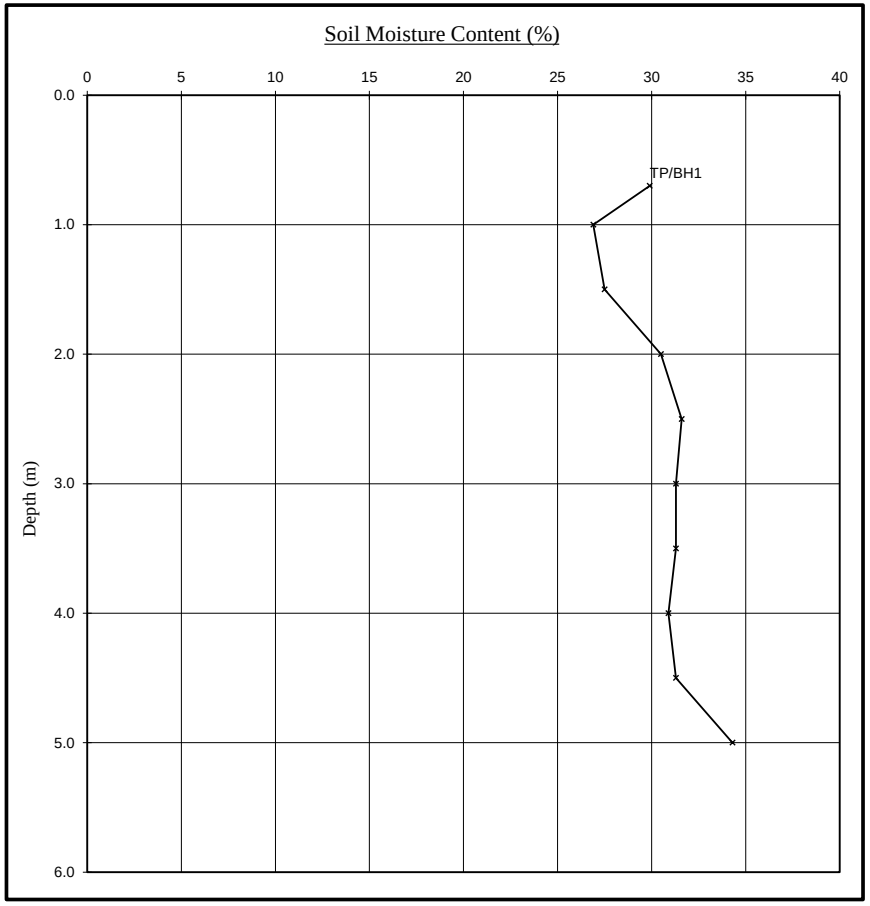
Construction Testing Solutions Ltd - Lawness Barns, Mountnessing Road, Billericay, Essex, CM12 0TS

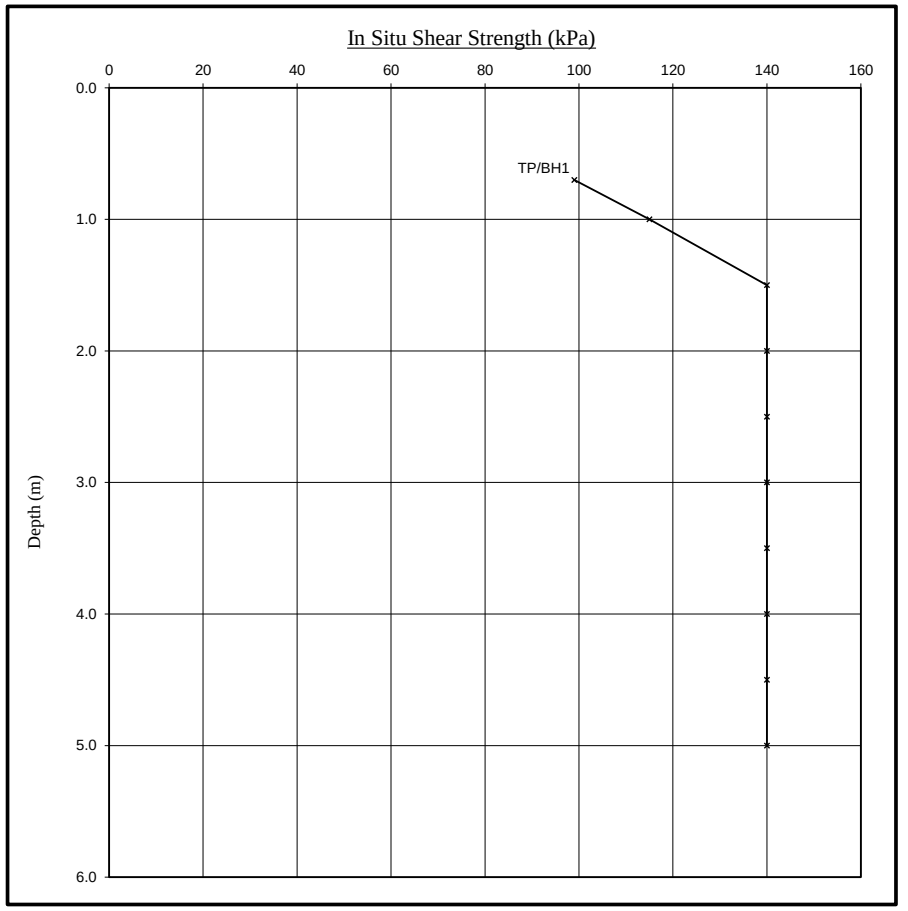
Moisture Content Profiles

Shear Strength Profiles

Our Ref : 642741
Location : Kenilworth Place
Work carried out for: CET Property Assurance (Sedgwick International UK)

Date Sampled : 10/06/2023
Date Received : 12/06/2023
Date Tested : 28/06/2023
Date of Report : 05/07/2023





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.

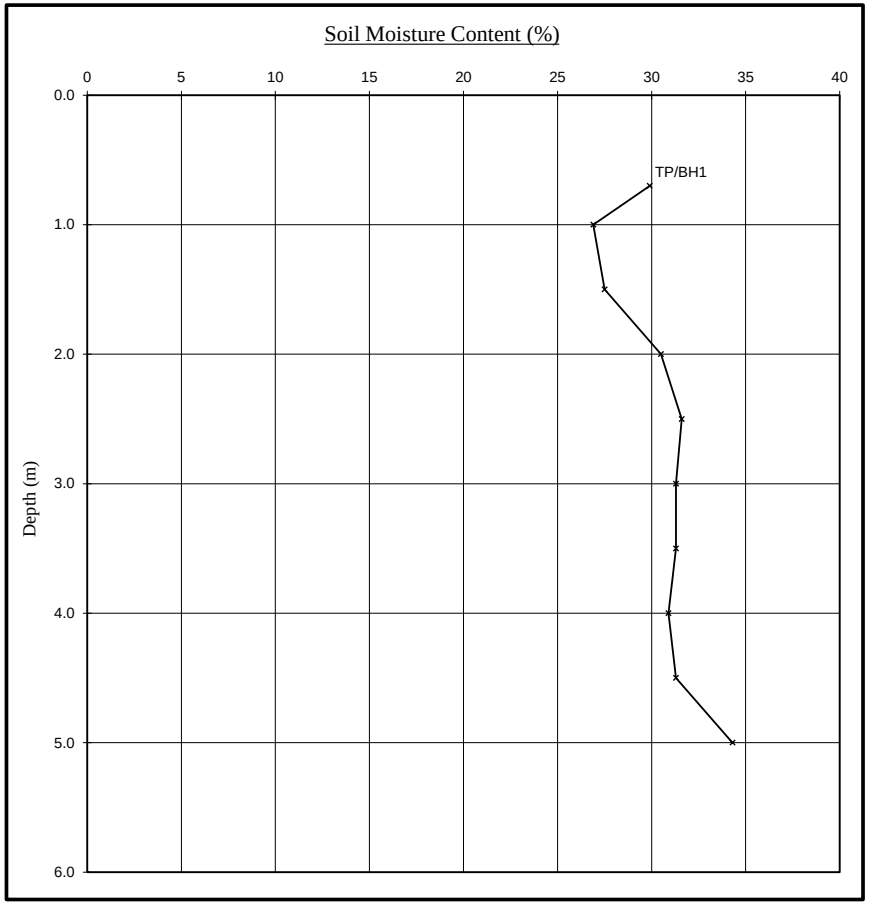
Note
1. Unless otherwise stated, values of Shear Strength were determined in situ by CTS using a Pilcon Hand Vane the calibration of which is limited to a maximum reading of 130 kPa.
2. Unless specifically noted the profiles have not been related to a site datum.

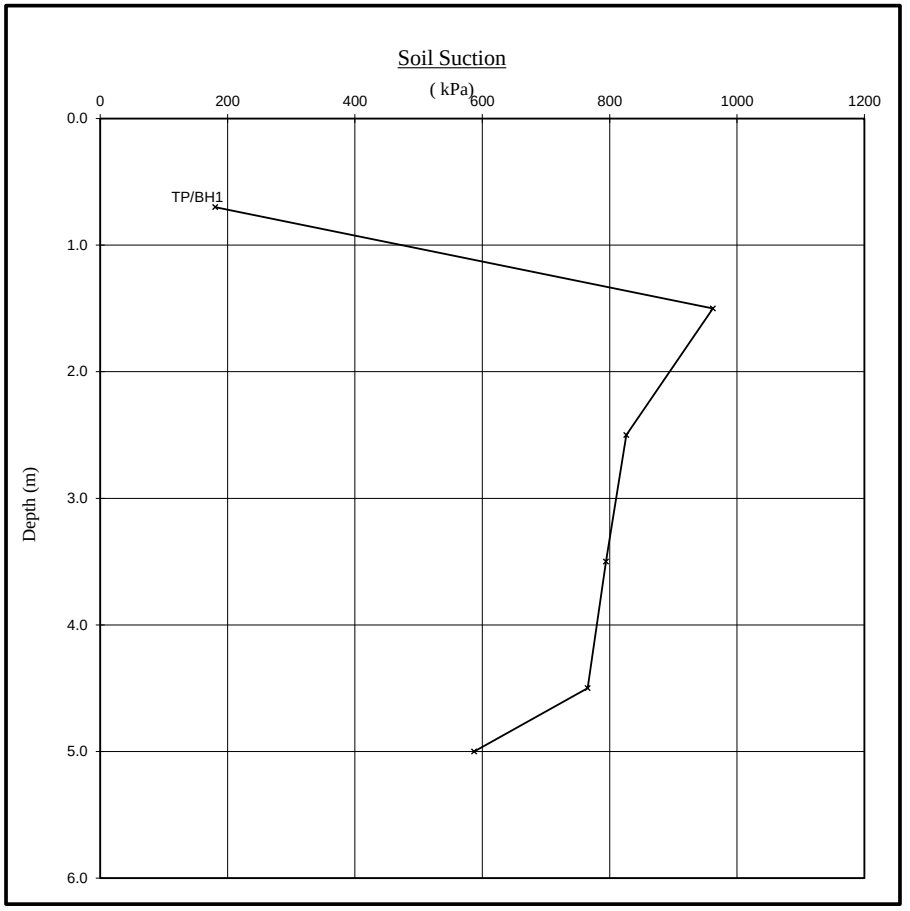
Moisture Content Profiles

Soil Suction Profiles

Our Ref : 642741
Location : Kenilworth Place
Work carried out for: CET Property Assurance (Sedgwick International UK)

Date Sampled : 10/06/2023
Date Received : 12/06/2023
Date Tested : 28/06/2023
Date of Report : 05/07/2023





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.

EPSL
Independent Scientific Analysis

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ROOT IDENTIFICATION

Kenilworth Place,

Client Reference: 642741
Report Date: 22 June 2023
Our Ref: R53501

Sub Sample	Species Identified		Root Diameter	Starch
TP1:				
USF	broadleaved species, too decayed for positive identification	1	1 mm	Absent
USF	too small and decayed for identification		<1 mm	Absent
BH1:				
to 2.2m	either *Quercus* spp. or *Castanea* spp.	2	1 mm	Moderate
to 2.2m	broadleaved species, too juvenile for positive identification		<1 mm	Absent
to 2.2m	not a tree or shrub root		1 mm	Absent

Comments:

1 - Possibly a shrub such as Hebe.
2 - Plus 1 other the same. Both rather juvenile.

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

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.