

SITE INVESTIGATION FACTUAL REPORT

Report No: SI-538118
Client: Sedgwick International UK - Morley
Site: 49 Park Lane, Cowplain
Hampshire
Client Ref: 9637588
Date of Visit: 30/11/2022



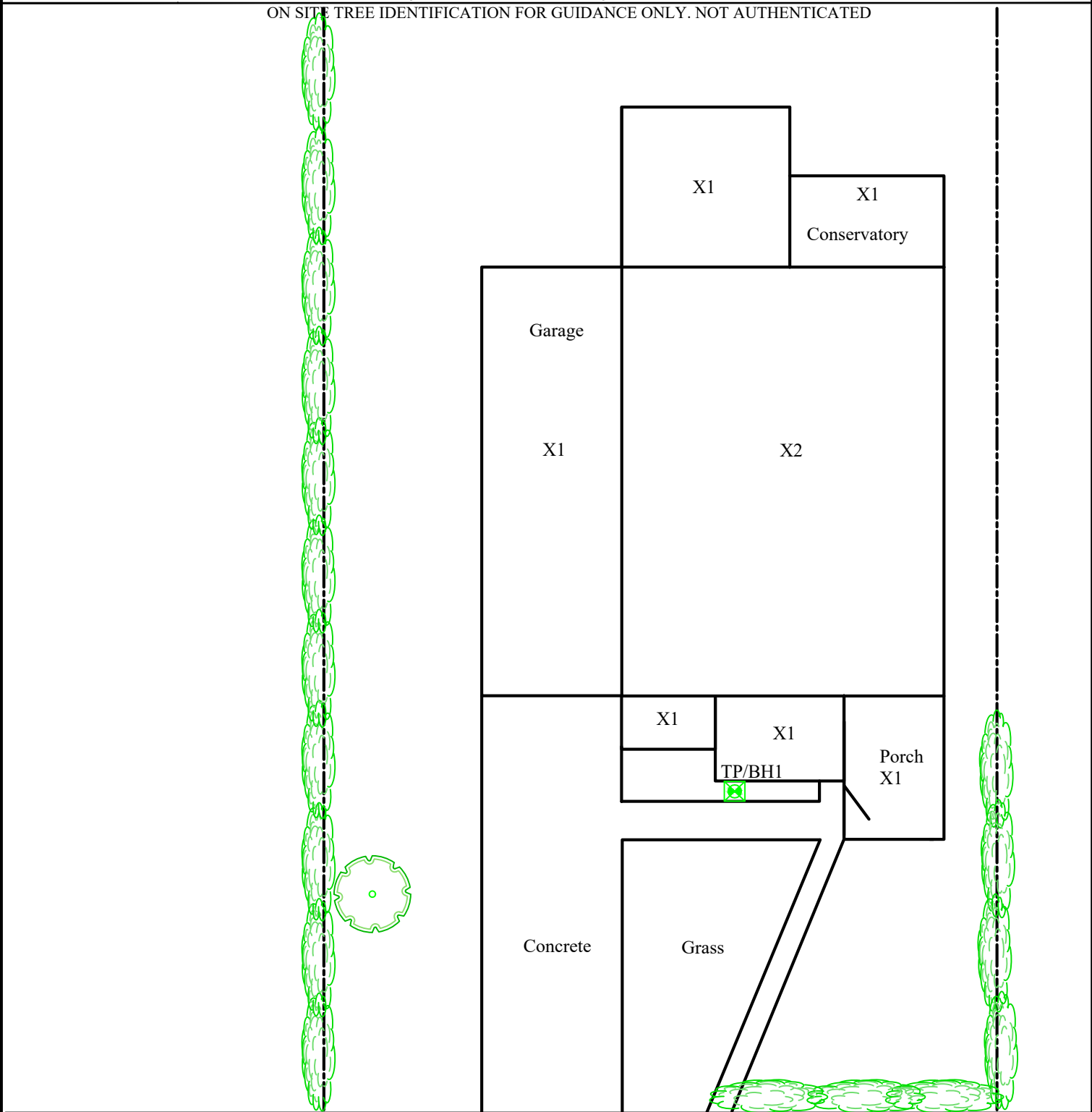
Home Emergency Response - Subsidence Investigation - Drainage Services – Crack & Level Monitoring – Property Video Surveys

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

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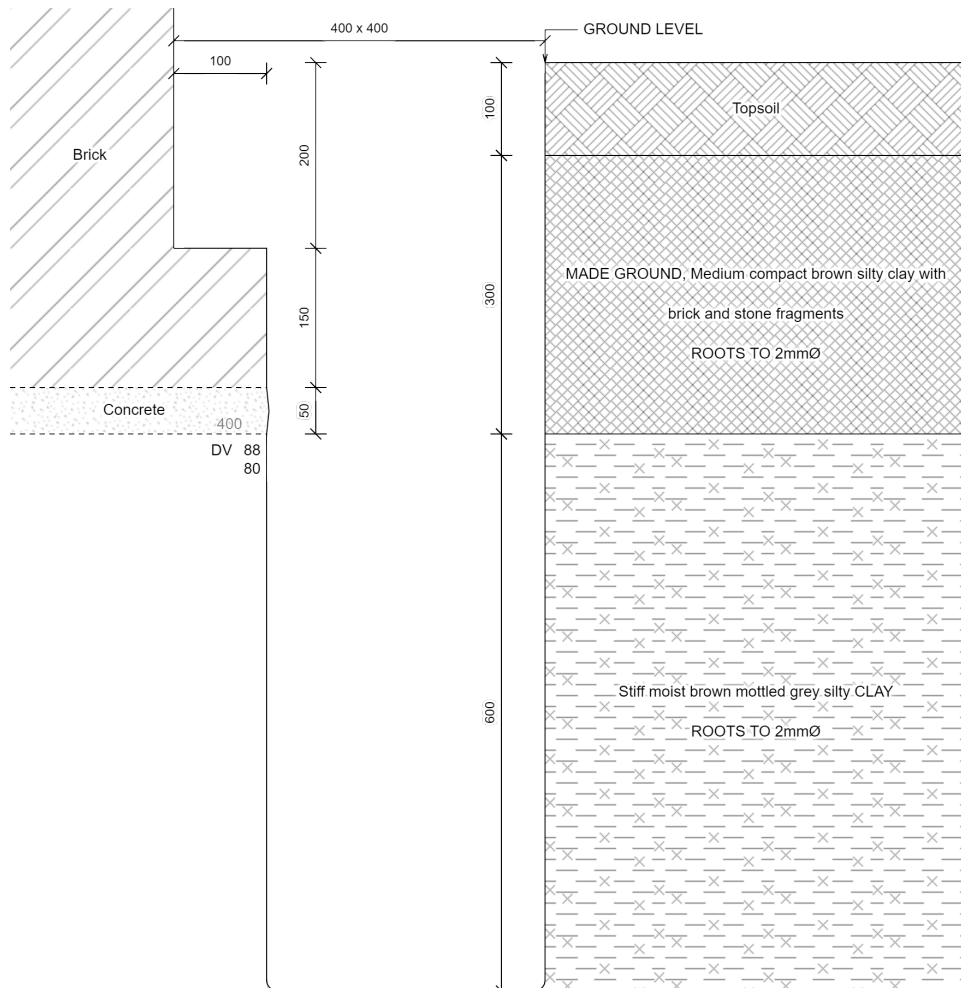
CET is the trading name of CET Structures Ltd
Registered in England No. 02527130

Investigation Layout Plan			Sheet: 1 of 1	Site: 49 Park Lane, Cowplain, PO8 8BB
			Job No: 538118	
			Date: 30/11/22	Work carried out for: Sedgwick International UK
AJE (SI)	AM (Checked)	JMC (Drawn)	Weather: Dry	



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

TEST REPORT:	Trial Pit		
REPORT NUMBER:	C1071078 / 227002.1.1.1	DATE:	13/12/2022
TRIAL PIT REF:	TP1	SITE:	49 PARK LANE
CLIENT:	Sedgwick International UK	WEATHER:	Dry
JOB NO:	538118		
EXCAVATION METHOD:	Hand tools		



For Strata below 1000mm see Bore Hole log

Standing water level at 300mm on completion.

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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Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation.
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
Scott Alger - Lab



Approved Signatory
Report date 13-Dec-22

Borehole				Sheet:	1 of 1	Site:	49 PARK LANE, COWPLAIN									
				Job No:	538118											
				Date:	30/11/2022											
Boring Method:	Hand Auger			Ground Level:		Client:	Sedgwick International UK									
Diameter (mm):	100	Weather:	Dry													
Depth	Soil Description					Thickness	Legend	Samples and Tests								
(m)								Depth	Type	Result						
0.00	See Trial Pit					1.00										
1.00	Stiff brown-grey silty CLAY					2.90	x — x	1.00	DV	120						
							x — x			120						
							x — x									
							x — x									
							x — x									
							x — x	1.50	DV	100						
							x — x			98						
							x — x									
							x — x									
							x — x									
							x — x	2.00	DV	128						
							x — x			130						
							x — x									
							x — x									
							x — x									
							x — x	2.50	DV	90						
							x — x			88						
							x — x									
							x — x									
							x — x	3.00	DV	80						
							x — x			84						
							x — x									
							x — x									
							x — x	3.50	DV	80						
							x — x			80						
							x — x									
							x — x									
							3.90	End of BH								
							Remarks: BH ends at 3.9m unable to extract sample through the water, BH open with standing water level at 200mm on completion					Key:	To Max			
													D - Disturbed Sample			Depth
B - Bulk Sample			(m)	(mm)												
W - Water Sample Roots			1.50	1												
J - Jar Sample Roots																
						V - Pilcon Shear Vane (kPa Roots										
						M - Mackintosh Probe Depth to Water (m)										
						TDTD - Too Dense To Drive										
Logged:	NJ	AM	Checked:	Approved:	Version	V1.0 28/01/16		N.T.S.								

SITE INVESTIGATION LABORATORY TEST REPORT

SI REPORT NUMBER: 538118

CLIENT : CET Property Assurance (Sedgwick International UK)

SITE:
49 Park Lane
Cowplain
Waterlooville, Hampshire
PO8 8BB

DATE OF SITE VISIT:
30/11/2022

DATE RECEIVED BY LABORATORY:
08/12/2022

Compiled by :
C.Major - Deputy Laboratory Manager

Approved by :
L.Marshall - Laboratory Manager

DATE REPORTED: 16-Jan-2023

Laboratory Summary Results

Our Ref : 538118

Location : 49 Park Lane, Cowplain

Client: CET Property Assurance (Sedgwick International UK)

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

Date Sampled: 30/11/2022

Date Received : 08/12/2022

Date Tested : 19/12/2022

Date of Report : 16/01/2023

Sample Ref		Type	Moisture Content	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 * (g / l)		* Class [16]
TP/BH No	Depth (m)																			
																		so3 [14]	so4 [15]	
1	U/S 0.40	D	39	<5	92	32	60	0.11	60	CE	7	42.2			84					
	1.0	D	34	<5	94	28	66	0.09	66	CE	7	202			120					
	1.5	D	36	<5											99					
	2.0	D	37	<5	84	26	58	0.18	58	CV	7	326			129					
	2.5	D	36	<5											89					
	3.0	D	38	<5	82	28	54	0.19	54	CV	7	65.2			82					
	3.5	D	36	<5							7	147			80					

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 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 : 1990, Test No 4

[13] BS 1377 : Part 3 : 1990, Test No 9

[14] BS 1377 : Part 3 : 1990, Test No 5.6

[15] SO₄ = 1.2 x SO₃

[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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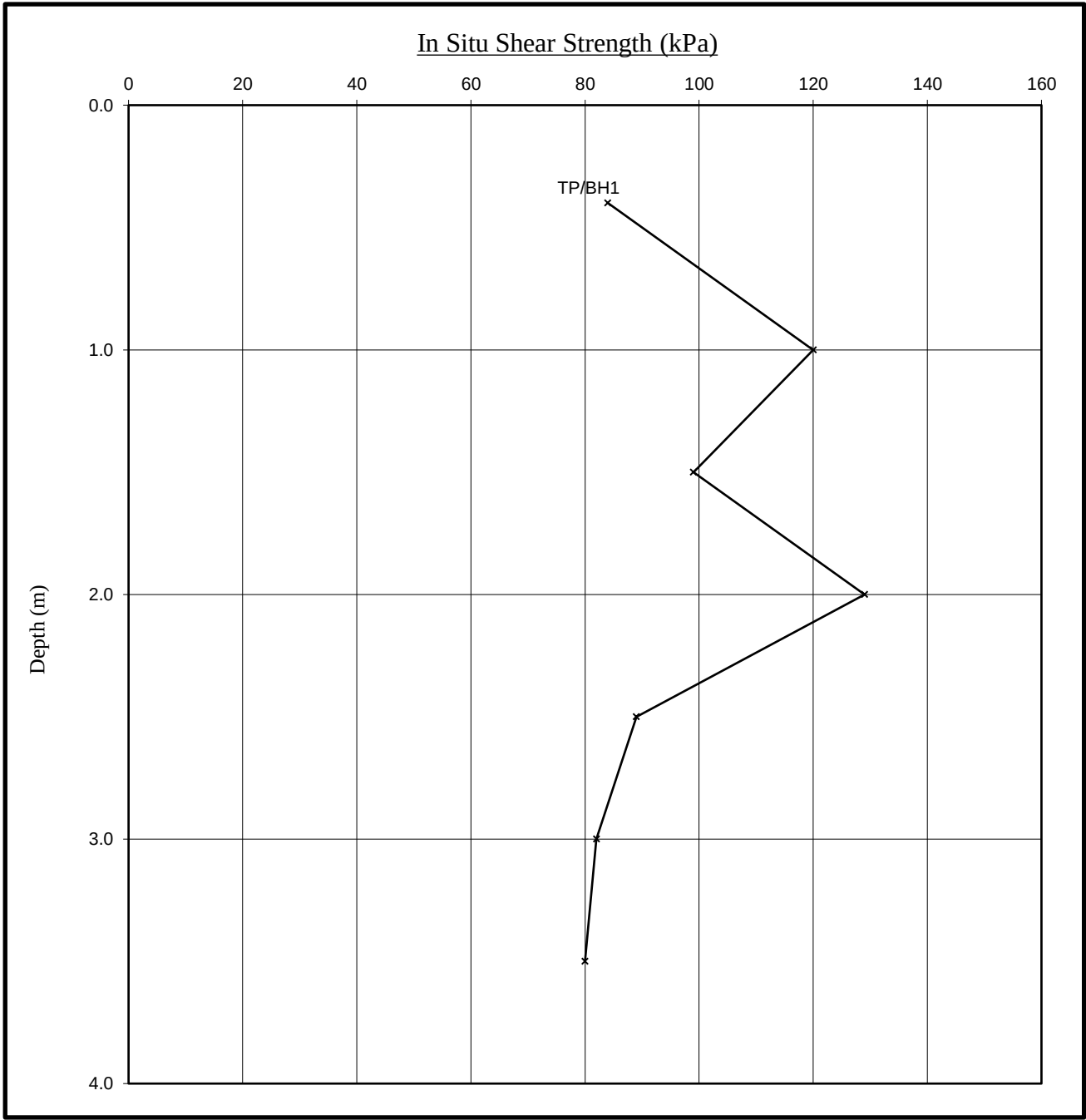
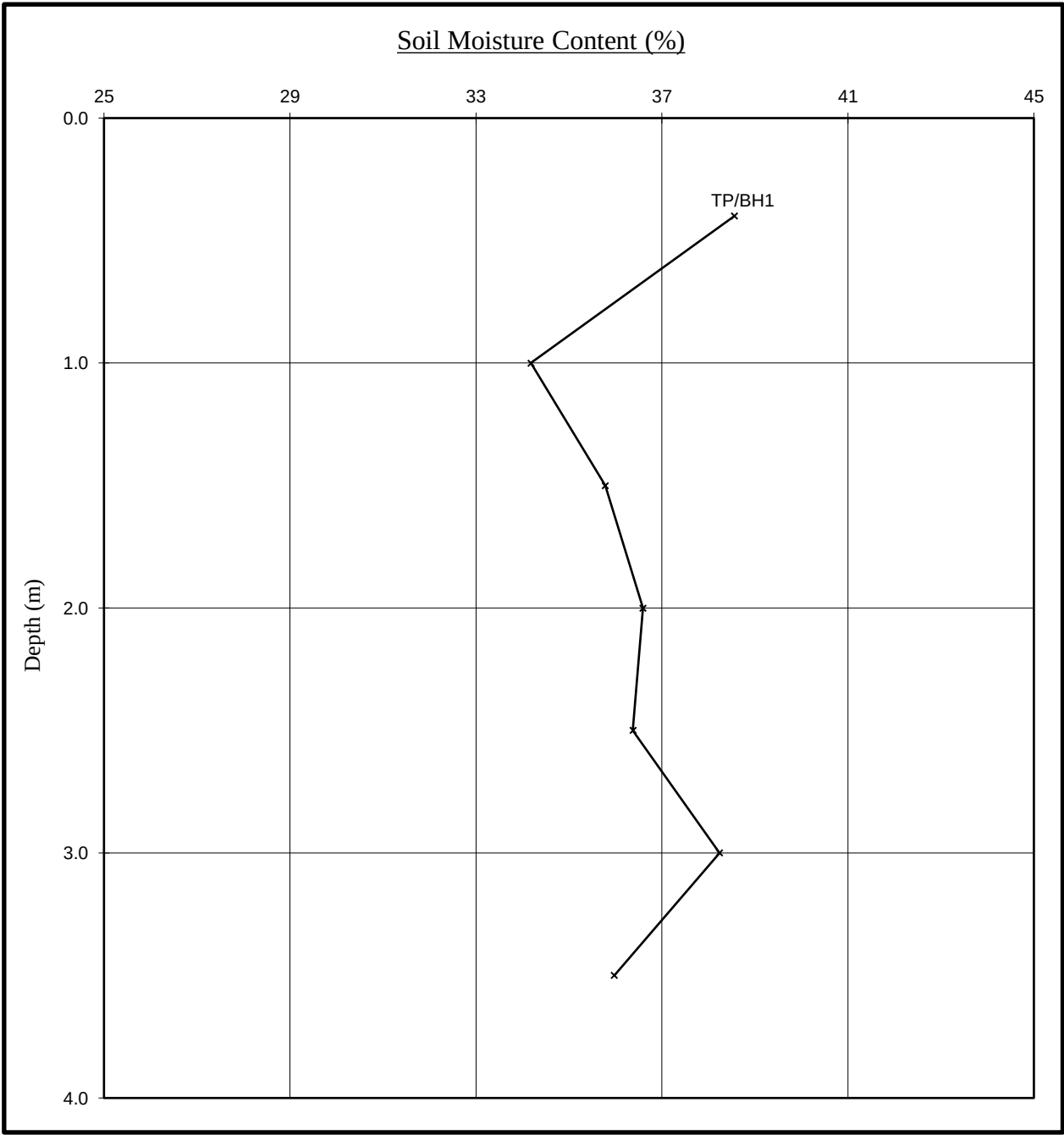
Version: 5BH V3.3 - 23.11.22

4161

Moisture Content Profiles

Our Ref : 538118
Location : 49 Park Lane, Cowplain
Work carried out for: CET Property Assurance (Sedgwick International UK)

Date Sampled : 30/11/2022
Date Received : 08/12/2022
Date Tested : 19/12/2022
Date of Report : 16/01/2023



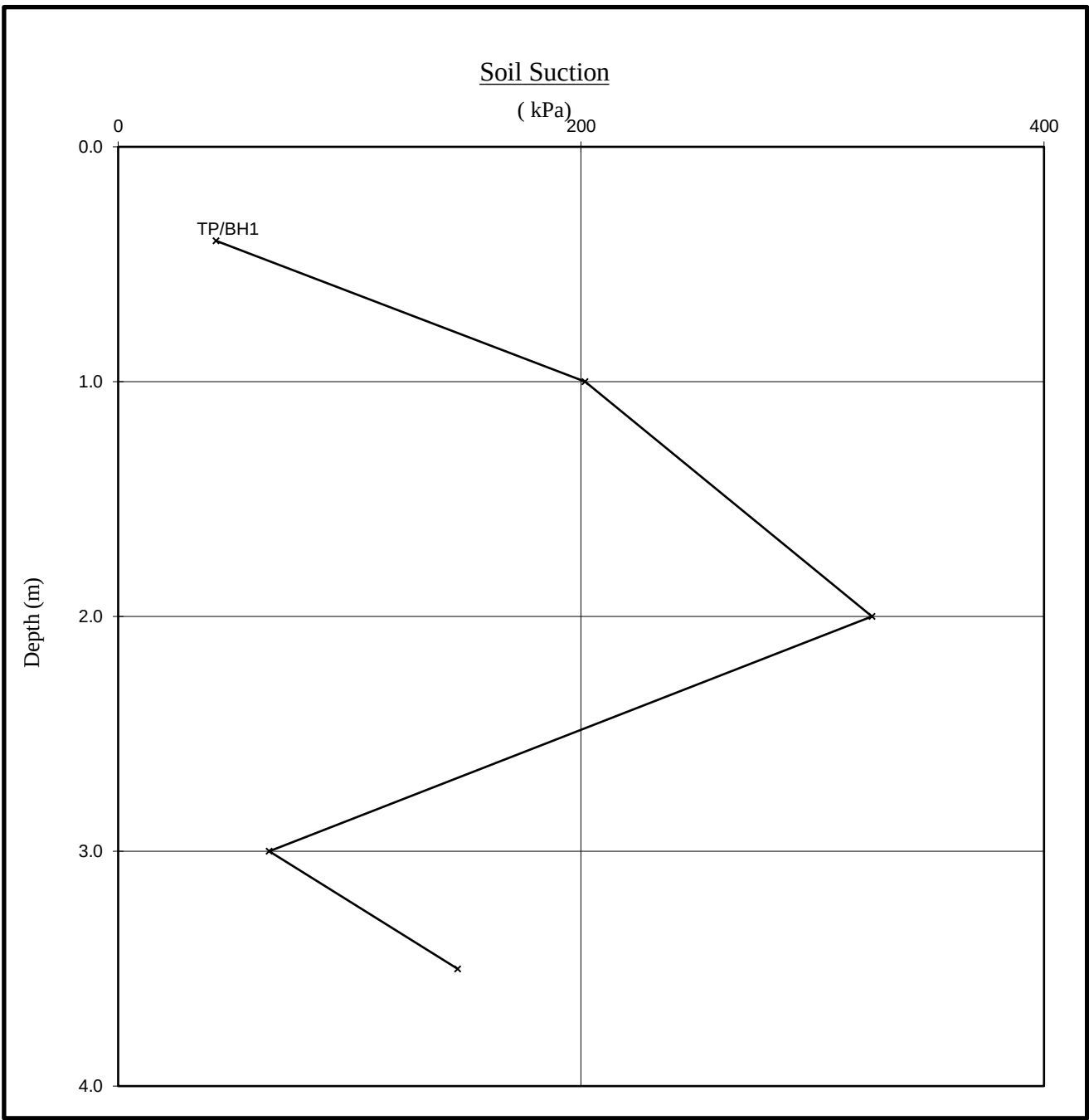
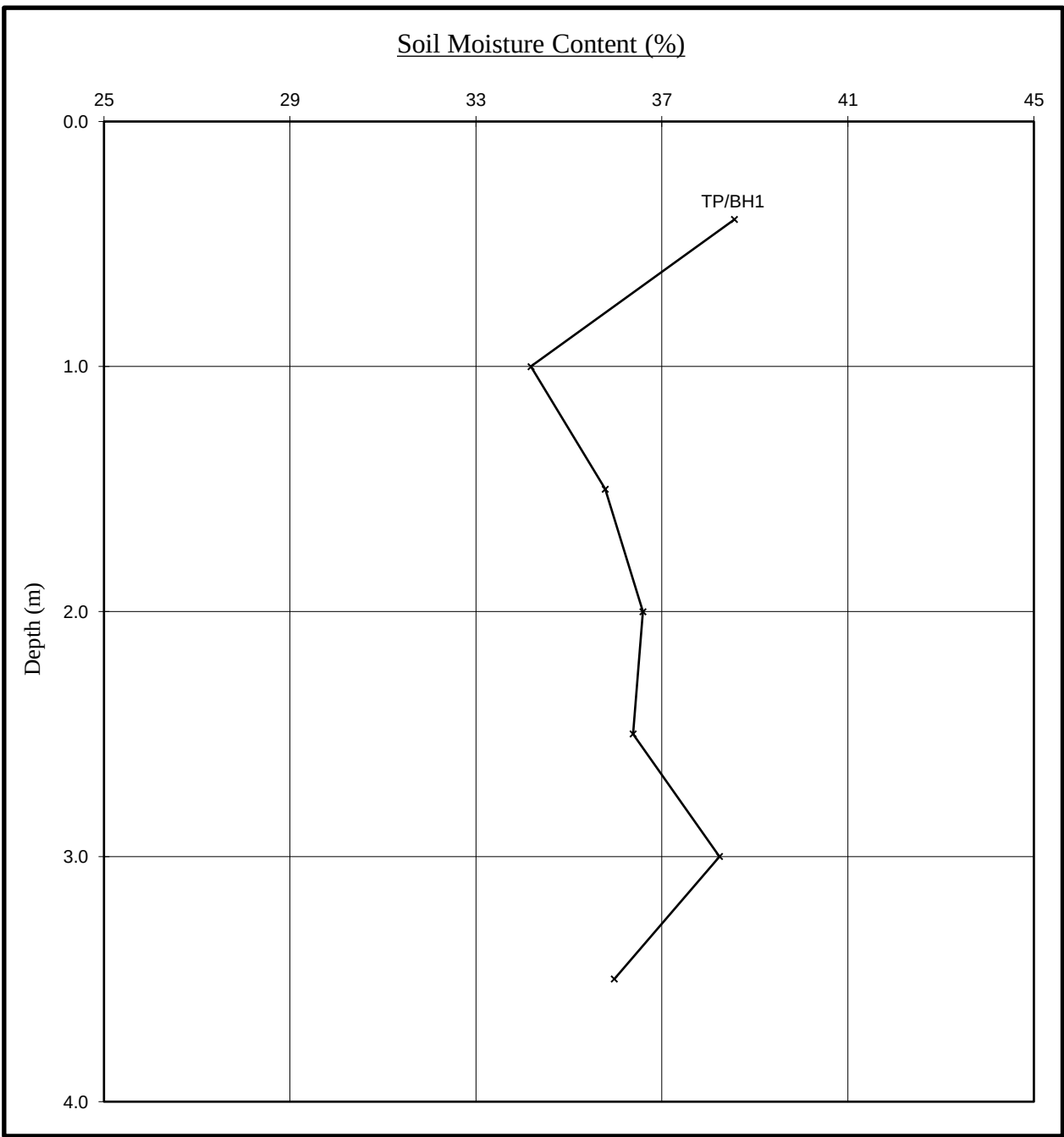
Notes
1. If plotted, 0.4 LL and PL+2 (after Driscoll, 1983) should only be applied to London Clay (and similarly overconsolidated clay) at shallow depths.
2. Unless specifically noted the profiles have not been related to a site datum.

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 : 538118
Location : 49 Park Lane, Cowplain
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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.

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LE3 3AW

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

ROOT IDENTIFICATION

49 Park Lane

Client Reference: 538118
Report Date: 20 December 2022
Our Ref: R49445

Sub Sample	Species Identified		Root Diameter	Starch
TP1:				
USF	Quercus spp.	1	1.5 mm	Abundant

Comments:

1 - Plus 3 others also identified as *Quercus* spp.

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

Signed: R. Shaw

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

