

SITE INVESTIGATION FACTUAL REPORT

Report No: [REDACTED]
Client: Sedgwick International UK - Maidstone
Site: 47B, Greencroft Gardens, London
Client Ref: [REDACTED]
Date of Visit: 09/11/2020



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



<h1>Investigation Layout Plan</h1>			Sheet: 1 of 1 [Redacted] Date: 15/12/20	Site: 47B, Greencroft Gardens, NW6
SP (SI)	SA (Checked)	Jo (Drawn)	Weather: Dry	Work carried out for: Sedgwick International UK

GREENCROFT GARDENS

PAVEMENT

NO 47

BICYCLE SHED

TP1

RWP

TP/BH1A

BH1

SHRUB
HT 2.0m
DT 3.0m

HT 4.0m - 5.0m
DT 5.0m

HT 18.0m+
DT 5.0m

FAIR HAZEL GARDENS

DRAIN RECOMMENDATIONS

Scale: N.T.S.

Surface Water Drain

Foul Water Drain

TEST REPORT: Trial Pit

REPORT NUMBER: [REDACTED]

TRIAL PIT REF: Tp1

CLIENT: Sedgwick International UK

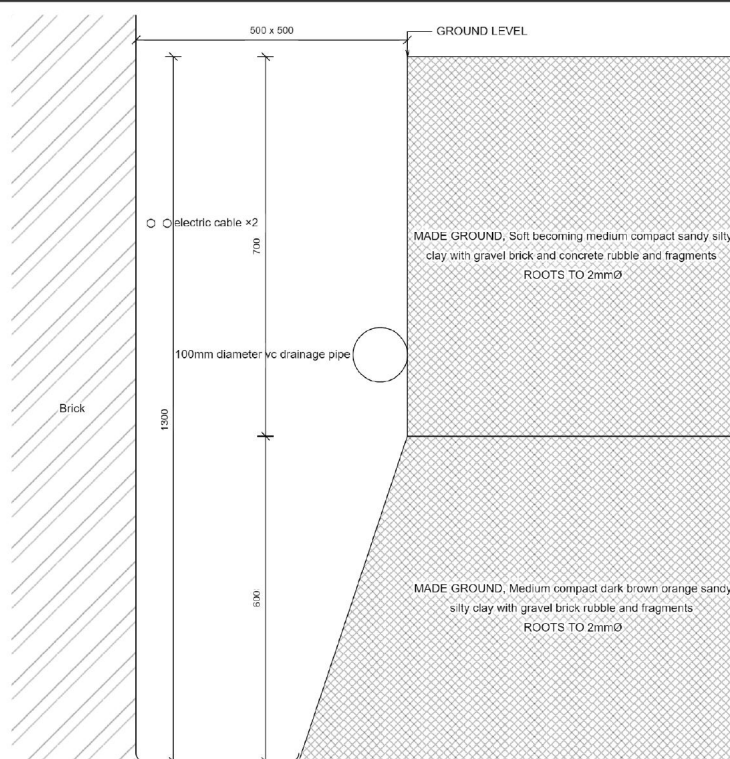
JOB NO: [REDACTED]

EXCAVATION METHOD: Hand tools

DATE: 09/11/2020

SITE: 47b Greencroft Gardens

WEATHER: Dry



Trial pit abandoned at 1300mm

U/S of foundation not found, no soil sample taken. TP abandoned at 1300mm due to foundation depth BH carried out behind TP.

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.

For and on behalf of CET

Scott Alger - Lab

Report Format:

[REDACTED]

[REDACTED]

Approved Signatory

10-Nov-20

[REDACTED]

Report version 1

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[illegible]

TEST REPORT: Trial Pit

REPORT NUMBER: [REDACTED]

TRIAL PIT REF: TP1A

CLIENT: Sedgwick International UK

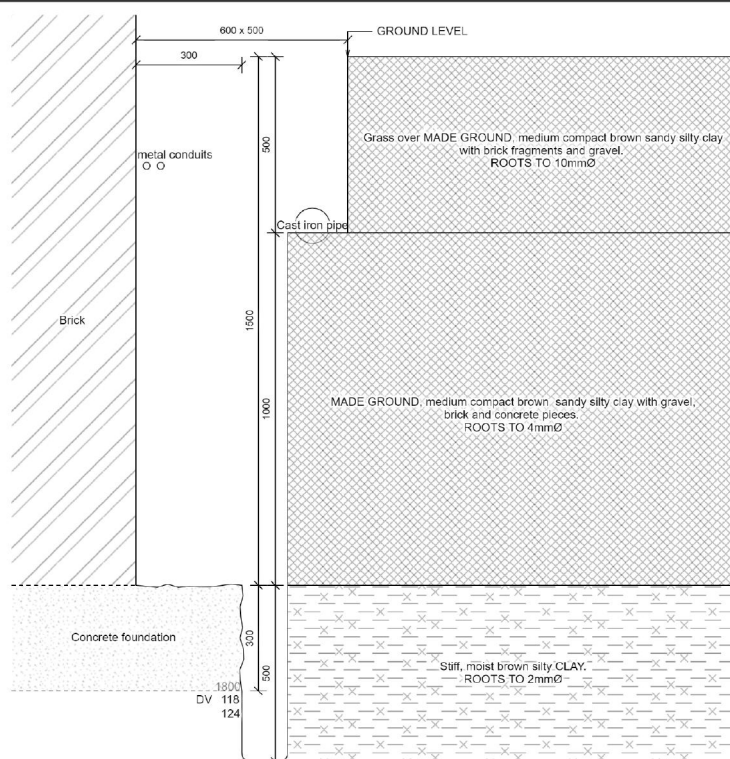
JOB NO: [REDACTED]

EXCAVATION METHOD: Hand tools

DATE: 15/12/2020

SITE: 47b Greencroft Gardens

WEATHER: Dry



For Strata below 2000mm see Bore Hole log

TP excavated to 1500mm, then extended with the aid of a hand auger to 2000mm. Curved steel pin driven approximately 150mm under concrete at 1800mm below ground level. Water seepage at 1500mm.

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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Report Format:



Approved Signatory

17-Dec-20



Report version 1

Page 1 of 1

[illegible]

Borehole		1A		Sheet: 1 of 1		Site: 47B, Greencroft Gardens	
Boring Method:		Hand Auger		Job No:			
Diameter (mm):		75		Date:		15/12/2020	
		Weather: dry		Ground Level:			
				Client:		Sedgwick International UK - Maidstone	
Depth		Soil Description				Samples and Tests	
(m)						Thickness	Legend
0.00		See Trial Pit				2.00	

Laboratory Summary Results

Our Ref: [REDACTED]

Location: 47B, Greencroft Gardens, London

Client: Sedgwick International UK - Maidstone

Address: [REDACTED]

Date Sampled: 09/11&15/12/20

Date Received: 10/11&17/12/20

Date Tested: 10/11&17/12/20

Date of Report: 18/11&29/12/20

Sample Ref		Type	Moisture Content (%) [1]	Soil Friction > 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 (s) [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 * (g/l) [14]		* Class [16]
TP/BH No	Depth (m)																	SO ₃ [14]	SO ₄ [15]	
BH1	1.5	D	22	<5	75	25	50	-0.07	50	CV	7	618			> 130					
	2.0	D	28	<5											> 130					
	2.5	D	25	<5	77	28	49	-0.06	49	CV	7	849			> 130					
	3.0	D	28	<5											> 130					
	3.5	D	28	<5	78	30	48	-0.04	48	CV	7	842			> 130					
	4.0	D	27	<5											> 130					
	4.5	D	28	<5							7	710			> 130					
	5.0	D	29	<5							7	676			> 130					

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 5936: 2018 - Figure 8 - Plasticity Chart for the classification of fine soils

[8] In-house method S50 adopted from BRE IP 439

[9] In-house Test Procedure S17a: One Dimensional Swell/Shrink Test

[10] Estimated Heave Potential (Dd)

[11] Values of shear strength were determined in situ by CPT using a Picon hand vane or Geotest 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] SO₃ - 1.2 x SO₄

[16] BRE Special Digest One (Concrete to Aggressive Ground) August 2005

Note that if the SO₄ content falls into the D5.4 or D5.5 class, it would be prudent to consider the sample as falling into the D5.4M or D5.5M class respectively unless water soluble magnesium testing is undertaken to prove otherwise.

* 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
FNP Presentially Non-Plastic by inspection
US Underside of Foundation

Test results reported relate only to the items tested.

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Version: SBH V1 - 11.11.20

0927



Our Ref: [REDACTED]

Laboratory Testing Results

Date Sampled : 09/11&15/12/20

Location : 47B, Greencroft Gardens, London

Date Received : 10/11&17/12/20

Client: Sedgwick International UK - Maidstone

Date Tested : 10/11&17/12/20

Address: [REDACTED]

Date of Report : 18/11&29/12/20

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 * (g / l)		* Class (16)
TP/HH No.	Depth (m)																	SO3 (14)	SO4 (15)	
1A	U/S 1.80	D	37	<5	83	29	54	0.14	54	CV	7	424			121					
	2.0	D	28	<5											128					
	2.5	D	28	<5	83	28	55	0.01	55	CV	7	788			> 130					
	3.0	D	29	<5											> 130					
	3.5	D	29	<5	78	32	46	-0.07	46	CV	7	874			> 130					
	4.0	D	28	<5											> 130					
	4.5	D	30	<5							7	685			> 130					
	5.0	D	31	<5							7	654			> 130					

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 5936: 1981: Figure 31 - Plasticity Chart for the classification

of fine soils

Test results reported relate only to the items tested.

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(8) In-house method not adopted from BS 1377: Part 2: 1990

(9) In-house Test Procedure S17a: One Dimensional Swell-Strain Test

(10) Estimated Heave Potential (Dd)

(11) Values of shear strength were determined in situ by CPT using

a Piken hand vane or Geotest vane (GV).

(12) BS 1377: Part 2: 1990, Test No 4

(13) BS 1377: Part 2: 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 (if 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.

* These tests are not UKAS accredited

Full reports can be provided upon request

Key

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U Undisturbed sample

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ESF Essentially Non-Plastic by inspection

US Underside of Foundation



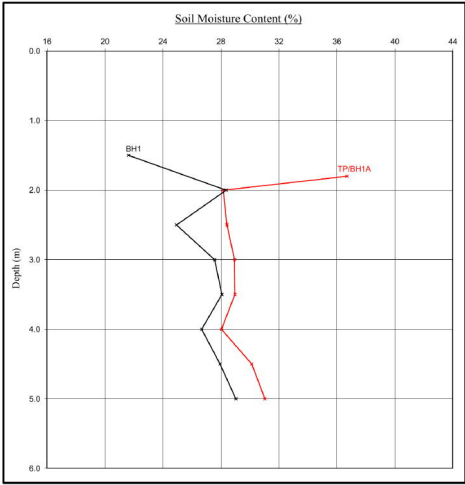
Version: SBH V1 - 11.11.20

0927

Moisture Content Profiles

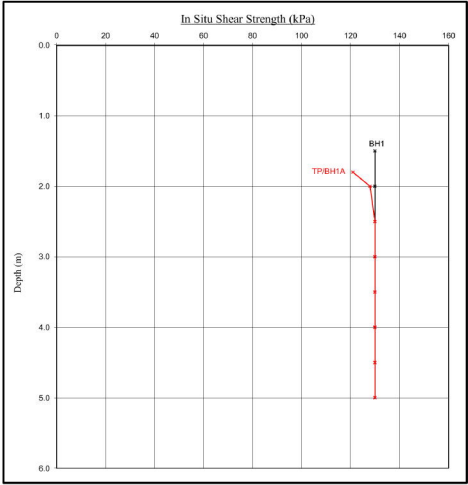
Our Ref: [redacted]
Location: 47B, Greenscroft Gardens, London
Work carried out for: Sedgwick International UK - Maidstone

Date Sampled: 09/11&15/12/20
Date Received: 10/11&17/12/20
Date Tested: 10/11&17/12/20
Date of Report: 18/11&29/12/20



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

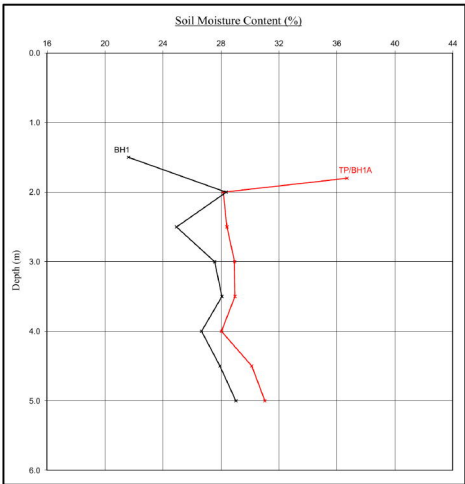


Note
1. Unless otherwise noted, values of Shear Strength were determined in situ by CPT using a Pison Hand Vane the calibration of which is limited to a maximum reading of 130 kPa.
2. Unless specifically noted the profiles have not been related to a site datum.

Moisture Content Profiles

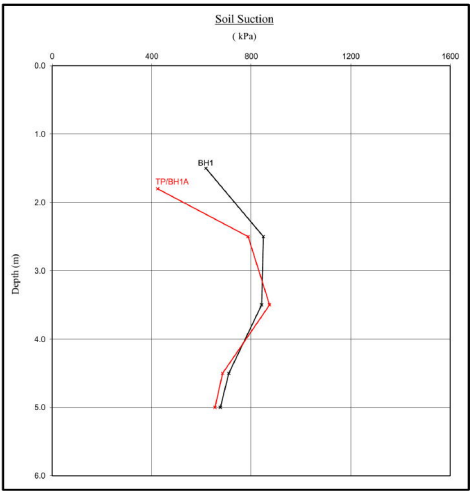
Our Ref: [redacted]
Location: 47B, Greencroft Gardens, London
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Notes
1. If plotted, 0.4 LL and PL-2 (after Driscoll, 1983) should only be applied to London Clay (and similarly overconsolidated clay) at shallow depths.
2. Unless specifically noted the profiles have not been related to a site datum.

Soil Suction Profiles



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 dependent 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.

Address for correspondence: EPSL, Intec, Parc Menai, Bangor, Gwynedd, North Wales, LL57 4FG

EPSL European Plant Science Laboratory	Sheet: 1 of 1	Site: 47B Greencroft Gardens, Work carried out for: Sedgwick International UK
	Date: 23/12/2020	

Certificate of Analysis

The following work was commissioned by CET on behalf of their client. Root samples were obtained in sealed packets from the above site with no reference given as to the types of tree or shrub from which they may have originated.
 The results were as follows -

<u>Trial pit/ Borehole number</u>	<u>Root diameter (mm)</u>	<u>Tree, shrub or climber from which root originates</u>	<u>Result of starch test</u>
TP1A (USF)	1 mm	Leguminosae spp. 2 roots	Positive
TP1A (USF)	<1 mm	Pomoideae gp.	Positive
BH1A (to 3.3m)	3 mm	Pomoideae gp. 2 roots	Positive

Leguminosae spp. include laburnum, Robinia (false acacia or locust), broom, the pagoda tree and the climber wisteria.
 Pomoideae gp include apple, cotoneaster, hawthorn, pear, pyracantha, quince, rowan, snowy mespil and whitebeam.

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Head of Laboratory Services : M D Mitchell B.Sc. (Hons), M.Phil.
 Plant Anatomist : Dr G S Turner B.Sc. (Hons), M.Sc., Ph.D
 Plant Anatomist : Dr R J Shaw B.Sc. (Hons), Ph.D
 Consultant: Dr M P Denne B.Sc. (Hons), M.Sc., Ph.D